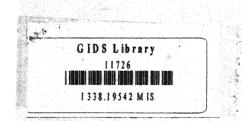
# Estimation of Marketable Surplus of Foodgrains in UP: 1966-67 to 1983-84

(An interim Report)

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### Contents

CHAPTER				뫈	AGE	<u> </u>
	I	:	INTRODUCTION	1	-	10
W 100 1 W 100 10 M 10	II		ESTIMATION OF MARKETABLE SURPLUS OF FOODGRAINS, CEREALS AND PULSES	11	4	44
			Studies on Surplus Estimation The present Study and Methodo-	11		
			logical Design Marketable Surplus : An Estimation	15 22		
			Contribution of Marketable Surplus: Regional Analysis	27		
			Shifts in Composition of Foodgrains Marketable Surplus	32		
			Generation of Marketable Surplus : Inter-district Analysis	35		
	III		ESTIMATION OF FOODGRAINS MARKETABLE SURPLUS: AN INTER-FARM ANALYSIS	45	-	66
			Methodology Proportion of Marketable Foodgrains Surplus in the State and Regions - Across Size-Classes of Land-	46		
			holdings State	49 49		
			Regional Estimates of Marketable .Surplus Distribution of Cereals and Pulses	57		
			Marketable Surplus in Different Size-groups of Landholding	64		
	IV	•	GROWTH ESTIMATES OF PRODUCTION AND MARKETABLE SURPLUS	67	-	93
			Methodology Growth Trends in the State Growth Trends in the Western Region Growth Trends in the Central Region Growth Trends in the Hill Region Growth Trends in the Bundelkhand Region Determinants of Marketable Surplus in Foodgrains The Explanatory Framework The Analytical Model and Results	69 70 72 78 80 84 84 84 86		

v :	CHARACTERISTICS OF THE MARKET ARRIVALS	94 -	102
	Production and market Arrivals Marketable Jurplus and Market	96	
	Arrivals Composition of the Market	98	
	Arrivals	101	
VI :	CONCLUSION	103 –	105

#### INTRODUCTION

The relationship between economic and agricultural growth surplus is one of key variables in the long run dynamics of the economy. Consequently, the literature has been fairly extensive on the subject and the economists have generalised that the low level of income in developing countries is associated with the low level of surplus generation in agricultural sector along with the high population pressure on it. The agricultural surplus has been considered important for any country from the following view points:

- (i) In most of the developing countries including India, the investment programmes of an increasing order are carried out as a part of the strategy of development. There will be obvious physical input requirements in terms of investment goods, intermediate goods and wage goods, with some of them mainly intermediate and wage goods originating from agricultural sector which are feasible when the agricultural sector produces surplus i.e. a level of output in excess of subsistence requirements.
- (ii) In so far as any strategy and programme of economic development does involve higher and rising level of output and to a certain extent in the industrial or in the non-agricultural sector, a certain amount of agricultural surplus and its transfer to other sectors particularly to industry is an important concomitant of economic development. It is very relevant point in so far as there are additional employment implications of the development.

- (iii) As the forces for the expansion of non-agricultural sector are set in motion on account of transfer of agricultural surplus to this sector, the labour force engaged in non-agricultural sector expands which in turn increases the demand for food which is possible to meet when agricultural surplus is increasing substantially.
  - (iv) The generation of smaller quantity of marketable surplus leading to lower cash incomes and smaller expenditure on such modern inputs such as fertilizers, smaller investible resources with relatively greater need for investment in traditional items has acted and likely to act as obstacle in the progress of small farmers. The inevitable result would be a widening of income gap between small and big farmers. Thus, the importance of marketable surplus is relevant not only for industrialisation in sectoral perspective but for the development of concerned land holdings also.
  - (v) The generation of surplus is also required to save foreign earnings that are spent on meeting food, deficit and to encourage export earnings through export.

It is on account of very importance of agricultural surplus in the process of economic development that the economists like Nicholls (1970) have pointed out that unless the developing countries succeed in achieving and sustaining a reliable food surplus, they have not fulfilled the fundamental precondition of economic development. Experience of various countries like

a labour surplus economy has been one of major points for discussion among development economists.

The Nurkse-Lewis model of growth which dominated the debate on the theme of development in labour surplus economies for a more than two decades, advocated for the transfer of surplus labour from agriculture to non-agriculture for realising 'concealed' agricultural surplus in terms of savings for development. The thesis was based on the assumption that the transfer of surplus labour from agriculture, the marginal productivity of that labour being equal to zero, will realise not only 'concealed' surplus but will also raise the marginal productivity of labour in agriculture. But the empirical tests of the model (Khusro, 1962 and Raynolds, 1965) find that neither the transfer of labour from agriculture to non-agriculture is technologically feasible nor can realise and extract concealed surplus for the expansion of non-agricultural sector. Hence the Hirschman type of unbalanced growth thesis were called for investment planning in order to remove 'constraints' on the supply side of production by expanding capital goods sector. The dominance of the Mahalnobis model for capital goods sectors' growth for a decade is witness to this fact in the Indian context.

The development policy based on the Mahalnobis model, having bias for capital goods sector expansion, could not remove supply constraints nor create employment opportunities for absorption of surplus labour in non-agricultural sector. On the

contrary, inflationary potentials, growing unemployment and adject poverty galore appeared on the Indian scene. The existence of demand constraints was taken to be owing to slow agricultural growth and surplus. Hence the differential strategy of farm development in the shape of New Farm Technology was adopted in the mid-Sixties.

The so-called, Green Revolution as a product of landaugmenting technological change brought about quick-yielding changes in food production which increased agricultural production in many-folds. Consequently, surplus produce also went up. But the increased surplus could not remove demand constraints on development nor the expansion or non-agricultural sector could absorb surplus labour; despite substantial increase in the share of non-agricultural income in national income. Agriculture still continues to absorb a major part of labour force. Substantial increases in agricultural output and surplus produce with substantial decline in the share of agriculture to national income and continuation of labour absorption in agriculture have been major structural characteristics of the process of development in the Indian economy, but accompanied by persistence of demand-supply constraints on its development. question is why?

There exist demand constraints due to deficiency of effective demand. The latter is due to lack of investment efforts. The existence of supply constraints is owing to sluggishness

in the rate of capital growth. This is what the Keynesian theory of growth shows. The existence of excess capacity or under utilisation of capacity in different industries bears a witness to this fact.

Assuming the role of agricultural development in overcoming the demand-supply constraints on development, it may be
argued that growing income inequalities in agriculture put a
limit on the creation of demand for industrial goods and consequently, on the utilisation of industrial capacity. As a result,
the process of development is hindered in various forms and
orders. There also exist supply constraints because the generation of agricultural (i.e. marketable) surplus is not only
sufficient condition for development but also the existence of
some mechanism and motive to capitalise it (S Chakravorty, 1979).
Is the surplus generated in agriculture not capitalised? The
question is why?

In fact, the process of inter-exchange of surplus between agriculture and non-agriculture depends on the form or
development of home market which is conditioned by the social
division of labour and social relations between labour and
capital as a means of production. In Indian agriculture, there
are many peasants who are not separated from the means of production and also hire out labour for subsistence consumption.
Under such condition, they enter the product market not voluntarily but not involuntarily. In this case, the surplus accrues

to the money-lender or trader. Amit Bhaduri (1985) calls it 'forced commercialisation'. Under the condition of 'forced commercialisation', the marketed surplus does not lead to capital as such but to interest-bearing or merchant capital, and 'the distress sale' by the peasants does not create demand for non-agricultural goods because that sale is compelsorily done for meeting consumption loans and other obligations. According to Bhaduri, 'such forced commercialisation' is linked with inter-locking of markets - for product, credit, land and market. If these markets are not interlocked but differentiably specialised and separate which is possible by having complete separation between labour as a commodity and means of production, then there will be 'normal commercialisation'. Under this condition, the generation of supply will be for agains from trade' and capital accummulation will take place. Thus the Bhanduri thesis shows that the varying proportion of 'forced commercialisation' to 'normal commercialisation' determines the relative existence of 'demand-supply constraints' arising out from within agriculture; and this proportion is closely associated with the relative economic power of different classes. Finally, he says that the relative power of agrarian ruling classes determines the accumulation process in the agrarian economy.

What all this shows is that the generation and realisation of marketable surplus are not only a function of agricultural production but also that of the relative power of agrarian

ruling classes. In fact, the generation and extraction of marketable surplus depends on the mode (or modes) of production that operates in agriculture and the demand-supply constraints arising out from within agriculture relating to marketable surplus should be studied in a broader perspective. From the analytical and policy-use point of view of our purpose, it is essential to know (a) who produces marketable surplus, (b) how it is extracted in the product market, and (c) how it is realised in market through the process of interchange between agriculture and non-agriculture.

The purpose of the present study is not to examine the above issues but to estimate the flow of marketable surplus in the state of Uttar Pradesh. Hence the estimation of marketable surplus is based on the following assumptions:

- a) there is co-existence of both 'forced' and 'normal' commercialisation,
- b). the relative proportion or degree of 'forced' commercialisation to 'normal' commercialisation spatially varies in the state, and
- d) all surplus extracted from agriculture does not appear in the regulated market nor is fully capitalised.

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#### Chapter II

## ESTIMATION OF MARKETABLE SURPLUS OF FOODGRAINS, CEREALS AND PUBS

The purpose of this part of the study is to estimate the flow of marketable surplus of foodgrains in the State of Uttar Pradesh, inclusive of its regions and districts. How to estimate the flow and how much surplus is potentially generated year-wise from 1966-67 to 1983-84 are purely methodological questions which are considered here.

From the point of view of analysis, the chapter is divided into the following: Studies on surplus estimation, the characteristics of the present study and methodological design and the final estimates of marketable surplus at the State, regional and intra-regional levels.

#### Studies on Surplus Estimation

The recognisation of marketable surplus as a critical variable in growth has prompted economists to undertake studies for its estimation. Such studies are of two categories:

(a) the first category consists of those studies which have estimated marketable surplus by different size-groups of farmers based on indirect estimation covering aggregative data at an all-India level; and (b) the second category includes those studies which estimate the surplus by using micro data obtained

from primary investigation or field surveys, showing the relationship between marketable surplus, output and land hold-ings.

The pioneering study of Dharana Narain for the year 1950-51 (1961) and the subsequent study by Utsa Patnaik (1976) for the year 1960-61 are major contributions in the first category. These studies are based on macro data such as NSS data on land holdings and consumer expenditure, national income accounts, Farm Management Surveys, All India Rural Credit Survey and All-India Rural Debt and Investment Surveys of the Reserve Bank of India, covering most of the agricultural produce at the national level. The study by Mishra (1975) also estimated marketable surplus of two major food crops, paddy and wheat, on the basis of NSS data on land holdings and consumer expenditure. The Ministry of Agriculture and Food Government of India presented Ad-hoc estimates of marketable surplus of paddy and wheat in 1969 which were based on all-India secondary data. All these studies had reference to one point of time in the late sixties, rranab Fradhan and Kalpana Bandhan (1969) estimated marketed surplus of Cereals based on NSS land holdings and consumer expenditure data and the Census data relating to non-agricultural population of the country. In fact, this study is not related to the estimation of marketable surplus but to that of marketed surplus of cereals. Hence it is primarily concerned with the demand side of cereal production in the product market.

There have been a number of studies on the estimation of marketable surplus at the micro-level. All such studies are primarily based on the data obtained from field surveys. Notable among them are the studies by Singh and George (1969) and by Hati (1976). These studies were primarily related to some specific areas belonging to runjab and west Bengal respectively. Nadkarni (1980) also estimated marketable surplus of millet crops based on the Farm Management Survey conducted in some specific areas of Maharashtra. In this way, Mishra (1980)

estimated marketable surplus of agricultural commodities in the context of Bellary district in Karnataka. His study was also based on field data.

So far the micro studies are concerned, there is no problem faced by research scholars in estimation of the flow of marketable surplus because of their command to go for direct estimation based on desired and controlled data. The micro data-based direct estimation, however, does not present macro picture. Rather it provides some clue to understanding the marketing behaviour of producers and the behaviour of specific area-based product market.

The estimation of marketable surplus of agricultural produce at the national level does not pose much problem, so far the part of data availability is concerned. However, difficulties arise at the level of using methodology for adjusting data to estimate home consumption of producers, wage

payments, seeds and wastages and other obligations which the producers have to fulfil in the shape of crop sharing and loan payment.

The estimation of marketable surplus of agricultural produce or foodgrains is quite combersome at the State level or at the inter-regional and intra-regional levels within a given state. It is so because the State-level or interregional and intra-regional levels data are not systematically available to estimate the consumption requirements, wage payments, seed requirements, loan payments etc. If the data on these items are pooled together from different sources at the State level, there is non-availability of data at the regional or district level within a given state. Hence the problem arises with respect to the availability of required data. the required data are obtained and pooled together from different secondary sources, a number of methodological difficulties crop up while using them to estimate the surplus. But without estimating the flow of surplus at the State or inter-regional level, it is very difficult to present an all-India picture in realistic sense of the term. Similarly, without estimating the flow of surplus at the inter-regional or district level within a given state, it is very difficult to approximately present some real picture at the State level. In this regard, Raja-Furchit's study of marketable surplus of cereals (1979) in the context of Karnataka is worth-mentioning. His study estimated the surplus at the inter-district level in the State based on

the Census of Agricultural Holdings (1971) and the NSS 28th round of consumption expenditure. The former was used for estimating cereal production at the inter-holding level and the number of cultivating households. The second was used for estimating consumption requirements of the producers. But his study did not estimate wage payments which went of as a part of cereal output from the producers and entered as an important of producers' expenditure and had one point of time reference. However an attempt was made for estimating the surplus at the State level.

#### The Present Study and Methodoligical Design

All the aforesaid studies for the estimation of foodgrains surplus resemble the single characteristic of being related to one time period, although the different spatial units have, in some studies, been taken for the analysis. With the result, the dynamism of foodgrains surplus as a result of technological breakthrough in agriculture sector remained a neglected aspect. It was essential also to estimate the district-wise surplus of all the states after the Green Revolution period to assess its changes for a sound agricultural and market intervention policies. The present study is a small attempt to abridge this gap. The study is significant as no such systematic attempt was made in the past to estimate foodgrains surplus in any of the States of the country particularly in case of Uttar readesh which has witnessed substatial growth in agricultural sector

during the post HYV era. The study incorporates both yearwise and district-wise estimation of surplus of cereals, pulses and total foodgrains since the post-Green Revolution period in Uttar Fradesh.

The main focus of the study is to estimate the marketable surplus of cereals, pulses and total foodgrains in temporal and spatial perspectives. The marketable surplus has been defined as:

$$M = Y - I$$

where M is the marketable surplus, Y is output and I represents the requirements of varying requirements which may be further decomposed as:

$$I = C + W + S + r$$

where C is producers (or cultivators) consumption, W is the wages paid from out-put to the hired agricultural labourers, S represents the share of seed, seed and wastage and r is the quantum of produce as rent bill on the net area leased-in. Thus the marketable surplus can be interpreted as:

$$m = Y - (C + W + S + r)$$

The first step in the estimation of marketable surplus required the collection of data relating to output of cereals, pulses and total foodgrains of all districts from 1966-67 to 1983-84 and accordingly the figures have been obtained from the Directorate of Agriculture, Uttar Pradesh, Lucknow. But

since the estimation of retainable part of the output i.e. the domestic consumption, total wages paid in quantity terms to the agricultural labourers, seed, feed and wastage and rent bill on leased—in land was not readily available, the following exercises are carried out to arrive at marketable surplus.

The cultivator's consumption requirements at home are met out from what they produce. Consequently, the total volume of consumption requirements depends on the total number of cultivators multiplied by their per capita consumption requirement. The figures relating to cultivator's population are published by the Directorate of Census Operations, Uttar Fradesh, Lucknow in every Census year. we have, for our own convenience, initially taken the 1961 Census figures of cultivators population as a base and made further year-wise projections upto 1983-84, on the basis of annual growth rate in the cultivators population during 1951-61, 1961-71 and 1971-81. We have, thus, arrived at the year-wise and district-wise cultivators population inclusive of infants and children many of whom do not consume grains. Hence 50 per cent of the cultivators population belonging to the age group of 0-14 years is deducted from the year-wise total population of cultivators on the assumption that half of the cultivators population in the age group of 0-14 years do not consume grains that they produce. resultant population finally is of the total number of cultivators who are consuming the foodgrains. It is now required to multiply this estimated population of producers with their

per capita consumption of foodgrains to arrive at the total domestic consumption of foodgrains. The National Sample Survey publishes the per capita consumer expenditure of the rural and urban population of the different States on different items. We have obtained the per capita rural consumption of foodgrains at the State level from different rounds and multiplied it with the year-wise estimated population of cultivators at the State level. A similar exercise is carried out at the district and regional levels with the assumption that the State per capita consumer expenditure is the proxy for the district and regional levels. Thus, we have finally estimated the domestic requirements of grains (inclusive of cereals and pubes) for the cultivators from 1966-67 to 1983-84 at the district, regional and State levels.

#### 11726

All the payments to labourers for performing the various agricultural operations were mostly made in kind prior to the introduction of modern technology in agricultural sector in India. Gradually these payments are monetised while some payments like barvesting and threshing are still made from the output of the crop concerned. However, wage payments are met out from the output they produce. Hence it is assumed that wage payments form a part of the produce which goes off from the producers account. Moreover, they also retain apart of the produce — whether in kind or cash by selling it — for the payment to agricultural to be employed for the next crop production and it represents the quantum of wage bill paid to the agricultural

labourers. We have devised our own methodology to estimate the proportion of output paid as total wage bill to the agricultural labourers. The Directorate of Census Operations publishes the district-wise number of agricultural labourers in each Census year. We have taken the number of agricultural labourers in the Census year of 1961 and made year-wise projection after 1961 on the basis of the annual growth rate of agricultural labourers population during 1951-61, 1961-71, and 1971-81. After estimating the year-wise and district-wise population of agricultural labourers from 1966-67 to 1983-84, we have collected the districtwise money wage rate of agricultural labourers of the respective years from the Board of Revenue, Uttar Pradesh, Lucknow. The population of agricultural labour in each year is multiplied by the money wage rate of the respective years and so we arrived at the total wage bill in value terms of all the agricultural labourers. It is now well recognised that the Indian agriculture is very much characterised by the under-employment. Keeping this fact in view, the standard days of effective employment (i.e. approximately 160 days based on the latest labour inquir report ) in a year of agricultural labourers have been adopted and multiplied by the wage bill of one day to arrive at the yearwise total wage bill. Since our study has been planned to estimate the marketable surplus in quantity terms, the total wage bill in value terms of the each year was divided by the current prices of foods rains prevailing in respective. years. data related to the prices of foodgrains have been obtained from Quarterly Bulletin of Statistics, published by the Directorato of economics and statistics. Thus, after dividing the total wage bill in value terms with that of prices of foodgrains, we arrived at the total wage bill paid in quantity terms from the output in each year at district, region and State levels.

The agrarian structure in India including U.F. is characterised by the skewed distribution of cultivable land. Consequently, some farmers particularly marginal and small, generally cultivate leased-in land. The farmers who cultivate leased-in land pay rent and generally it has been observed that rent bill amounts to 44.5 per cent of the total production realised on the leased-in land. Since the total production realised on the leased-in land is not available from any source, we have estimated this production by taking the total area leasedin by all categories of farmers from the agricultural Census of 1970, 1976 and 1981. We have assumed that the leased-in area from the years 1966-67 to 1984-85 remained the same as of the leased-in area of 1970 agricultural census, from 1975-76 to 1979-80 to that of 1976 agricultural Census and from 1980-81 to 1983-84 to that of 1980 agricultural Census. We have also obtained the year-wise and district-wise yield of foodgrains from the Directorate of Agriculture, Uttar Fradesh and multiplied the year-wise and district-wise yield with the year-wise and districtwise leased-in area to calculate the production of leased-in area of all the districts and years. When the production is finally estimated on leased-in land, then 44.5 per cent of this production is calculated and abstracted from the total production of foodgrains to deduct the rent bill from the total output.

As far the estimation of seed, feed and wastage components of the rententable part of the output is concerned, 12.5 per cent of the total foodgrains is aportioned to these and substracted from the total output as has generally been followed in other studies.

All these components of retainable part of the output could be calculated only for total foodgrains because the limitation of data could not permit the estimation of retainable component of output in terms of cereals and pulses separately.

But our study has been planned to estimate the marketable surplus for cereals, pulses and total foodgrains. In order to remove this limitation, we have added all these components like consumption, wage bill, seed, feed and wastage and rent bill and thus arrived at the total foodgrains. Then these foodgrains figures are divided into cereal and pulses components separately as per the proportionate shares of cereals and pulses in the foodgrains production structure of all the districts and years. Finally, the retainable figures of cereals, pulses and total foodgrains and the resultant figures are the district-wise and year-wise marketable surplus of cereals, pulses and total foodgrains.

The term, marketable surplus used in this study is 'gross' but not 'net'. The concept of <u>net</u> marketable surplus is not figured in estimation because repurchases of commodities by a significant number of farmers who go have to undertake 'distress' sale are very difficult to calculate on the basis of secondary data available at aggregative level.

#### Marketable Surplus: An Estimation

As per our methodology for estimating the marketable surplus, we have calculated the retainable components of the output of cereals, pulses and total foodgrains and deduced them from their output respectively. The resultant figures are the marketable surplus. Thus the total marketable surplus of foodgrains generated in the State was 52066.75 thousand quintals in 1966-67 (43.8%) of total foodgrains production) and this increased to 182973.10 thousand quintals during 1983-84 (62.8% of total production). Similarly, the cereals marketable surplus in the State was 43351.92 thousand quintals in 1966-67 (36.5% of total production) and this too increased to 167613.70 thousand quintals during 1983-84 (57.5 per cent of total production). However, the pulses marketable surplus although increased in absolute quantity from 8714.89 thousand quintals in 1966-67 to 15359.57 thousand quintals during 1983-84 but its proportionate share in total production declined from 7.3 per cent in 1966-67 to 5.3 per cent during 1983-84 as evident from Table 2.1.

The generation of cereals, pulses and total foodgrains marketable surplus has undergone substantial changes with the passage of time and space.

So far the region-wise increase in the flow of marketable surplus of foodgrains is concerned, Table 2.1 shows that the proportion of foodgrains as marketable surplus went up from

Table 2.1: Region-wise Percentages of Cereals, Pulses and Total Foodgrains Marketable Surplus in Total Production

\ ס א	West	ern Reg	noi	Eas	tern Reg	Lon	Cent	tral Regi	g d
( (	Cereals	Pulses	Total Foodgrain	Cereals	Pulses	Total Foodgrain	Cereals	Pulses	Total Foodgı
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972 - 7	2	•	8	<u>ب</u>		8.1	Ņ	N.	55.
973 - 7	ω •	•	<b>ω</b>	ហ	•	0.9	9	00	5.2
974 - 7	2.1	•	ω	•	•	•	0	•	56
975 - 7	2		Φ	9	•	5.8	7.		ωį
976 - 7	ω <u>μ</u>	•	φ	0	•	6.4	7.		55
977 - 7	4.9		0	.0		2. 2	9	•	55
978 - 7	ω •	•	7.	.7	•	3.4	2	•	60
979 - 8	ω •	•	9	4	•	8.4	8		43
980 - 8	<u>ب</u> •		4	0	•	5	ហ		o,
981 - 8	9	•	9	<u>ب</u>	•	4	•	•	74
98	62.1	ယ Մ	65,6	48.4	4.7	53°1	52.0	o. 2	55
ယ     မ	•		9	2	•		5		60

Contd..../-

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13     14     15     16     17     18       3.3     1.6     34.8     36.5     7.3     43.5       6.3     2.4     58.7     44.9     10.9     55.2       7.9     1.7     49.5     44.9     10.9     55.2       8.7     1.7     49.5     44.9     10.9     55.2       9.0     1.2     60.2     44.1     8.3     52.4       1.8     1.0     62.8     44.4     8.9     53.5       1.0     61.6     47.7     7.2     54.2       2.0     1.3     63.3     44.4     8.9     53.4       3.9     1.0     61.6     47.7     7.2     54.3       3.9     1.0     65.3     50.9     6.3     57.3       3.9     50.9     6.3     57.3     62.3       3.6     0.8     64.4     56.3     50.9     6.3       3.6     0.8     64.4     56.3     50.9     6.3     50.9       3.6     0.8     64.4     56.3     56.3     56.3     56.3       4.8     0.9     55.7     57.5     57.5     59.6		-1 E-1	ocagrains		o D C T D C T D C	Foodgrains	מושם כפועם ב	ע מ ד	Foodgrains
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1.8       1.2       63.0       47.7       7.2       54.2         2.0       1.3       63.3       46.9       7.4       54.3         3.8       1.4       65.3       47.6       7.3       54.4         4.9       1.0       65.9       50.8       6.9       57.3         3.7       1.1       64.8       50.9       6.9       57.3         3.6       0.8       64.4       55.9       6.1       62.2         3.6       0.8       64.4       55.9       6.1       62.2         3.6       0.8       64.4       55.9       6.1       62.2         4.8       0.9       55.7       54.1       5.6       59.6         8.94       0.7       59.69       57.5       5.3       62.2	.2 19.3 65.	2		0		-	9		S,
2.0       1.3       63.3       46.9       7.4       54.3         3.8       1.4       65.3       47.6       7.3       54.4         4.9       1.0       65.9       50.8       6.9       57.4         3.7       1.1       64.8       50.9       6.3       57.4         3.6       0.8       64.4       51.4       3.9       55.8         3.6       0.8       64.4       55.9       6.1       62.3         3.6       0.8       64.4       54.9       4.4       59.4         4.8       0.9       55.7       54.1       5.6       59.8         8.94       0.7       59.69       57.5       5.3       62.2	.3 22.2 56.	· ·				٠ ص	7		4.2
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3.6     0.8     64.4     51.4     3.9     55.8       8.1     1.1     69.2     55.9     6.1     62.       3.6     0.8     64.4     54.9     4.4     59.4       4.8     0.9     55.7     54.1     5.6     59.8       8.94     0.7     59.69     57.5     5.3     62.	2 21.0 61.	•		3		-#	0		
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per cent to 57.9 per cent in the Western region, from 27.4 per cent to 57.9 per cent in the Western region, from 43.1 per cent to 60.9 per cent in the Central region, from 45.3 per cent to 65.8 per cent in the Bundelkhand region and from 34.8 per cent to 59.69 per cent in the Hill region in 1966-67 from 1983-84. Similar is the case with respect to the flow of marketable surplus in all the regions of the State. However, the proportion of marketable surplus of pulses declined in all the regions, except in the case of the Eastern region and Bundelkhand region. In the former, there had been marginal rise in 1983-84 from 1966-67: but in the latter, it increased from 15.2 per cent in 1966-67 to 22 per cent in 1983-84. The increase in the flow of marketable surplus of foodgrains as well as cereals has been most striking in the eastern region.

Among all the regions of the State, the Western and Bundel-khand were the only two regions where the percentages of total foodgrains marketable surplus in total foodgrains production were above the State level in 1966-67 and these two regions could also retain their position during 1983-84. The generation of higher foodgrains marketable surplus in the Western region than the State was on account of better performance of agricultural sector of the region during the post-HYV period. However, in the Bundelkhand region the higher generation of foodgrains marketable surplus than the State was not an outcome of better agricultural development but it was due to highly skewed distribution of land holdings and comparatively smaller size of cultivators population.

The inter-regional dynamism in the generation of marketable surplus is visible in case of cereals marketable surplus. The proportionate share of cereals marketable surplus in total output was higher than the State only in the Western region in 1966-67 but the Hill region joined the Western region in generating higher than State level cereals marketable surplus during 1983-84. The larger proportion of cereals marketable surplus in the Western region was simply the impact of higher agricultural development there but the emergence of hill region with Western region during 1983-84 indicates the revolutionary changes brought about the migrant farmers of runjab in the agriculture of Tarai part of the region. The yield levels of Cereals like paddy and wheat increased so much in this part of the region that these were no less than the yield levels of paddy and wheat of the most advanced region of the State i.e. Western region.

Unlike Cereals, the generation of pulses marketable surplus was most effected with changes in time at regional level. surplus

The percentages of pulses marketable/in total cutput were observed to be higher in Western region, Bundelkhand region average and Central region than the state/in the year 1966-67 and among these three regions only Bundelkhand and Central region could again have higher share during 1983-84. The Western region has setback in pulses production to the extent that the share of pulses marketable in total production declined below the State level percentage. These inter-regional changes in the generation of pulses marketable surplus were on account of the fact that

during the post-Green Revolution period, the technological breakthrough was only in case of cereals particularly wheat and paddy. The pulses production that was realised mainly through the traditional varieties became unprofitable in those regions where other alternative crops like wheat and sugarcane were easily available for cultivation. In the western region of the State where the adoption of commercial and high yielding varieties of crops was largest, the cultivation of pulses naturally became less attractive. As a result, the production and marketable surplus declined in all such regions in successive years of the Green Revolution. The soil characteristics and nature of rainfall was exclusively suitable for pulses cultivation in the Bundelkhand region which enabled the region to generate higher than State proportion of its marketable. The central region, despite having higher share of pulses marketable surplus in comparison to the State also experienced declining tendency. The Eastern region, more or less, maintained status quo its comparative picture so far the share of marketable surplus of pulses is concerned. What all this shows is that pulses production and marketable surplus have been a victim of technological break-through in the sense that quick-yielding changes have made the cultivator of those crops profitable for the farmers which are adaptable to new technology and practices.

#### Contribution of Marketable Surplus: Regional Analysis

Every region of the State has been experiencing agricultural growth differently as per capacity of its resource utilisation and technological uses in farming. As a result, increases in marketable surplus of cereals, pulses and total foodgrains spatially vary in temporal persapectives. These variations in the marketable surplus have led to variations in stock of marketable surplus in the State over the years. The regional changes in the flow of marketable surplus are of immense significance for assessing the relative position of the different regions of the State in respect of generating potential marketable surplus in the near future.

The inter-regional pattern of contributions to the flow of marketable surplus as Table 2.2 shows, reveals the following:

The Western region is the major contribution of the State's (i)total marketable surplus of foodgrains, despite having decline in its relative share from about 55 per cent in 1966-67 to a little more than 41 per cent in 1983-84. Similar is the case with respect to its relative position in the flow of cereal marketable surplus which was 55.33 per cent in 1966-67 but it went down to 43 per cent in 1983-84. In respect of its contribution to the flow of pulse marketable surplus at the State level, it contributed half of its total marketable surplus in 1966-67; and it sharply declined to a little more than 19 per cent in 1983-84. This phenomenon indicates that the agricultural development in the Western region reached at the maximum level between 1966-67 to 1983-84 because this region was having development base of agriculture even prior to the HYV era. Moreover, a significant part of foodgrain cropped area was substituted by crops

Region-wise Contribution of Cereals, Pulses and Total Foodgrains Marketable Surplus in the States Marketable Surplus Table 2.2:

Y e a r	W Cereals	Western Region Pulses Tota	H	E Cereals	astern Re Pulses		Cereals	Central Rec	Region Total	
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Bundelkhand F als Pulses		~	ં. ે	19,50		N	~	m.	0.1/	~ <del></del>	N	N	C)	in	C	on.	co :
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like sugarcane and oilseeds. Hence the production of foodgrains and its marketable surplus could not increase as much as was expected in this region.

- (ii) The Eastern region of the State taken to be agricultural backward has emerged the only region of the State wherein its proportionate shares of the State's total marketable surplus cereals, pulses and total foodgrains have increased from 1966-67 to 1983-84. More remarkably its share of pulses marketable surplus in the total pulses marketable surplus of the State has become maximum during 1983-84. The region was contributed a little more than one-third of the total marketable surplus of all these crops belonging to the State. These optimistic changes occurring in the agricultural sector of the Eastern region reveal dynamism of agriculture from subsistence level to growth orientation.
- (iii) The central region does not contribute more than 17 per cent of the total marketable surplus of foodgrain and cereals in the State. The relative contribution of the region in the generation of marketable surplus of the State has, more or less, remained stagnant varying from 19 per cent to 10 per cent during 1966-67 to 1983-84. Its relative share in the flow of cereal marketable surplus also presents a similar case. Its contribution to the flow of pulses marketable surplus does not show any increasing trend but it has remained to be stagnant varying from 17 per cent to 25 per cent during the 1966-67 to 1983-84.

(iv) The Bundelkhand and Hill regions taken together contribute a little more than one-tenth of the total marketable surplus of foodgrains and cereals. The relative contribution of the Hill region is much smaller than that of the Bundelkhand region. The relative shares of both regions in the generation of total marketable surplus of foodgrains belonging to the State do not show any sign of increasing trend during 1966-67 to 1983-84, rather they have remained stagnant. However, the relative share of the Bundelkhand region in the generation of total pulses marketable surplus of the State has gone up from 12.24 per cent in 1966-67 to about 30 per cent in 1983-84.

Thus the eastern region emerged the only region among all five regions of the State whose shares of cereals, pulses and all foodgrains marketable surplus in States surplus respectively have increased with the passage of time and if this trend continues, the eastern region may dominate all other regions in contribution to the States marketable surplus.

The relative position of the Hill region in the generation of marketable surplus is the lowest due to obvious reasons. Except in case of pulses marketable surplus, the relative position of the Bundelkhand region is also quite low in respect of foodgrains and cereal marketable surplus.

### Shifts in Composition of Foodgrain Marketable Surplus

Marketable surplus of foodgrains is composed of the cereals and pulses marketable surplus and these two surpluses

are components of the equally important for the requirements of balanced growth in the economy. If one component increases and other declines, than this calls for immediate and concerted efforts on the part of policy makers to devise the strategy to boost up the agricultural production of declining components. A similar situation has emerged in U.P. and in most of its regions where the marketable surplus of pulses has declined considerably during the post-Green Revolution period.

Table 2.3 shows that the share of cereals marketable surplus in the total marketable surplus of the State was 83.3 per cent in 1966-67 which increased to 91.6 per cent during 1983-84 while the pulses marketable surplus in the State was reduced to half during the same period. The composition of cereals and pulses in the flow of marketable surplus of foodgrains at the inter-regional level shows that the relative shares of pulses in the total marketable surplus of foodgrains declined from 15.6 per cent to 3.9 per cent in the western region, from 4.5 per cent to 1.1 per cent in the Hill region, from 15.8 per cent to 9 per cent in the eastern region, and from 18.1 per cent to 9.7 per cent in the central region from 1966-67 to 1983-84. It was only the Bundelkhand region wherein the proportion being 33.5 per cent in 1966-67, remain the same in 1983-84. The most notable point is that in the Bundelkhand region, the marketable surplus of pulses constitutes one-third of the region's marketable surplus of foodgrains. The reasons for higher proportion of pulses in the composition of foodgrains in the Bundelkhand region are mentioned elsewhere in this study.

Table 2.3: Region-wise Proportions of Cereals and Pulses
Marketable Surplus in Total Marketable Surplus

Y e a r s	Western	Region	Eastern	Region	Central	Region	Bundelkhand	nd Region	Hill Region		Uttar Pr	adesh
	Cereals	Pulses	Ccreals	Pulses	Cereals	Pulses	Cercals	Pulses	Cersals 1	Pulses	Cersals	Pulses
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These shifts in compositions of foods rains marketable surplus between pulses and cereals indicate comparatively low profitability of pulses cultivation during the post-HYV period. The pulses marketable surplus suffered most in those areas particularly where the pace of technological transformation of agricultural sector was faster. The R & D for high yielding varieties of pulses and for their cultivation did not receive attention and there is need for devicing the strategy to increase pulses production in the State.

#### Generation of Marketable Surplus: Inter-district Analysis

The inter-district generation of marketable surplus for cereals, pulses and total foodgrains production has been analysed by ranking the district in different proportion groups. These proportion-groups have been prepared separately for cereals, pulses and total marketable surplus in keeping view/the different shares of cereals, pulses and total marketable surplus in States production during the whole period of 1966-67 to 1983-84. The idea behind preparing different proportions ranges for cereals, pulses and total marketable surplus is to classify all the districts of the State which are generating higher than the State level percentage of cereals, pulses and total marketable surplus in total States production and vise-versa. Thus, the percentage range of 50-55 in case of total marketable surplus, 45 per cent to 50 per cent for cereals surplus and the frequency of 10 per cent to 15 per cent for pulses are the indicative of the State level shares of marketable surplus in the production

crops of these/in the state respectively. The details of the regionwise classification of the districts have been in Table 2.4. It is evident from the table that most of the districts of the Western region. were generating cereals and foodgrains marketable higher than the State level and in its all districts, except Agra the share of pulses marketable surplus in their cutput was below the State level. The districts of Bahraich and Jaunpur of the Eastern region were at par with State in cereals and foodgrains marketable surplus generation. Only Allahabad district was producing higher than State level surplus of cereals and total foodgrains and this district was also at par with the State in pulses marketable surplus. Rest of the districts of the region were below the State level surplus generation of cereals, pulses and total foodgrains. In case of Bundelkhand region all districts were ahead of/Statelevel in pulses and total foodgrains marketable surplus generation and in case of cereals only Lalitpur district was above the State and rest of the districts were below the State proportion of cereals marketable surplus. In the Central region, four districts namely, Barabanki, Fatehpur, Kheri and Lucknow were at par with the State in total foodgrains marketable surplus and except Sitapur other four districts viz. Hardoi, Kanpur, Rae Barely and Umnac were generating higher foodgrains marketable surplus. Most of the districts of the Central region were producing less than the State proportion of pulses marketable except Fatehpur and Kanpur. In all the districts of the Hill region the share of pulses surplus was lower than the

# Table 2.4 : Ranking of all the Districts of Uttar Pradesh according to the Percentages Marketable Surplus in total Production

(Western Region - Total Foodgrains)

								9.		
1.	40	per	cent		45	per	cent	•	1.	Bijnor
2.	45	per	cent		50	per	cent	\$	1.	Saharanpur
3.	50	per	cent		55	per	cent	\$	1. 2.	Meerut Muzaffarnagar
4.	55	per	cent	and	abo	ove			2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	Agra Aligarh Bareilly Badaun Bulandshahr Etah Etawah Farrukhabad Mainpuri Mathura Moradabad Pilibhit Rampur Shahjahanpur Ghaziabad
										Region - Cereals)
							cent			
2.	40	per	cent		45	per	cent	\$	1. 2.	Bijnor Saharanpur
3.	45	per	cent		50	per	cent	•	2.	Agra Meerut Muzaffarnagar
4.	50	per	cent	a <b>n</b> d	ab	ov e		•	2. 3. 4. 5. 6. 7. 8. 9. 10.	Aligarh Bareilly Badaun Bulandshahr Etah Etawah Farrukhabad Mainpuri Mainpuri Moradabad Pilibhit

12. Rampur

13. Shahjabanpur 14. Ghaziabad

		(We	stern Region - Pulses)
	1	and the second s	
1. 0		5 per cent	
2. 5	<u>-</u>	10 per cent	1 Aligarh 2 Badaun 3 Bareilly 4 Etah 5 Etawah 6 Farrukhabad 7 Mainpuri 8 Mathura 9 Shahjahanpur
3. 10		15 per cent	: 1. Agra
4. 15	-	20 per cent	
5. 20	) per (	cent and above	
			(Eastern Region - Total Foodgrains)
1. 40	0 -	45 per cent	: 1. Ballia 2. Basti 3. Deoria 4. Gorakhpur 5. Mirzapur 6. Pratapgarh 7. Sultanpur
2. 4	5 –	50 per cent	<ul><li>1. Azamgarh</li><li>2. Faizabad</li><li>3. Ghazipur</li><li>4. Gonda</li><li>5. Varanasi</li></ul>
3. 5	io –	55 per cent	: 1. Bahraich 2. Jaunpur
4. 5	5 per	cent and above	: 1. Allahabad

#### (Eastern Region - Cereals)

 Ballia
 Deoria 40 per cent: 1. 35 3. Ghazipur 4. Gorakhpur 5. Mirzapur 6. Pratapgarh 7. Sultanpur 1. Azamgarh 45 per cent : 40 2. Basti 3. Faizabad 4. Gonda 5. Varanasi 1. Behraich 45 50 per cent : 3. 2. Jampur 50 per cent and above : 1. Allahabad (Eastern Region - Pulses) 1. Bahraich 1. 0 5 per cent : 2. Basti 3. Deoria 4. Gorakhpur 5. Jampur 1. Azamgarh - 10 per cent : 2. 5 2. Ballia 3. Faizabad 4. Ghazipur 5. Gonda 6. Mirzapur 7. Pratapgarh 8. Sultanpur 9. Varanasi 15 per cent: 1. Allahabad 3. 10 20 per cent : 15

20 per cent and above :

contd.../-

#### (Central Region - Total Foodgrains)

- 40 per cent 45 per cent : 1.
- 45 per cent 50 per cent : 1. Sitapur 2.
- 1. Barabanki 50 per cent - 55 per cent :
  - 2. Fatehpur 3. Kheri
  - 4. Lucknow
- 55 per cent and above. 4.
- 1. Hardoi
  - 2. Kanpur
  - 3. Rae Barely
  - 4. Unnao

#### (Central Region : Cereals)

- 35 per cent 40 per cent : 1.
- : 1. Fatehpur 40 per cent - 45 per cent
  - 2. Lucknow
  - 3. Sitapur
- Barabanki
   Kanpur 3. 45 per cent - 50 per cent •

  - 3. Kheri
- 50 per cent and above
- 1. Hardoi
  - 2. Rae Barely
  - 3. Unnao

#### (Central Region : Pulses)

- 5 per cent 1.
- 5 per cent 10 per cent : 2.
- 1. Barabanki
- 2. Hardoi
- 3. Kheri
- 4. Rae Barely
- 5. Sitapur
- 6. Unnao
- 7. Lucknow
- 10 per cent 15 per cent : 1. Fatehpur 3.
  - 2. Kanpur
- 15 per cent 20 per cent 4.
- 20 per cent and above 5.

#### (Bunderknamu Region : Total Foodgrains)

- 1. 40 per cent 45 per cent :
- 45 per cent 50 per cent: 2.
- 3. 50 per cent - 55 per cent:
- 4. 55 per cent and above
- 1. Banda
- 2. Hamirpur
- 3. Jalaun
- 4. Jhansi
- 5. Lalitpur

#### (Bundelkhand Region - Cereals)

- 1. 35 per cent 40 per cent : 1. Banda
  - 2. Hamirpur
  - 3. Jalaun
- 2. 40 per cent 45 per cent : 1. Jhansi
- 3. 45 per cent 50 per cent :
- 4. 50 per cent and above : 1. Lalitpur

#### (Bundelkhand Region - Pulses)

- 0 per cent 5 per cent: 1.
- 5 per cent 10 per cent 2.
- 10 per cent 15 per cent :
- 15 per cent 20 per cent : 4.
- 20 per cent and above 5.
- : 1. Banda 2. Hamirpur
  - 3. Jalaun
  - 4. Jhansi
  - 5. Lalitpur

#### (Hill Region - Total Foodgrains)

- 1. 40 per cent 45 per cent : 1. Uttarkashi
- 50 per cent : 1. Chamoli 45 per cent -
- 50 per cent 55 per cent : 1. Tehri Garhwal 3.
- 4. 55 per cent and above
- 1. Almora
  - 2. Pithoragarh
  - 3. Dehra Dun

  - 4. Garhwal5. Nainital

#### (Hill Region - Cereals)

- 35 per cent 40 per cent : 1. Uttarkashi 1.
- 40 per cent 45 per cent : 2.
- 45 per cent 50 per cent : 1. Chamoli
- 50 per cent and above 4.
- 1. Almora
  - 2. Pithoragarh
  - 3. Dehra Dun
  - 4. Garhwal
  - 5. Nainital
  - 6. Tehri Garhwal

#### (Hill Region - Pulses)

- 0 per cent 5 per cent : 1. Almora

  - 2. Pithoragarh
  - 3. Dehra Dun
  - 4. Garhwal
  - 5. Chamoli
  - 6. Nainital
  - 7. Tehri Garhwal
  - 8. Uttar Kashi
- 2. 5 per cent - 10 per cent :
- 10 per cent 15 per cent 3.
- 4. 15 per cent - 20 per cent :
- 20 per cent and above 5.

State average, however five districts namely Almora, Pithoragarh, Dehra Dun, Garhwal and Nainital were generating higher share of foodgrains surplus in their foodgrains output as against the State proportion.

The estimates of marketable surplus foodgrains, cereals and pulses present inter-regional and intra-regional variations in the generation of their respective marketable surplus. Emergence of the western region in the growth of marketable surplus of foodgrains and cereals appears to be the most characteristic feature of agricultural growth in the State. But decline in the flow of foodgrains are pulses surplus is one of the most disappointing feature which requires careful attention.

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#### Chapter III

ESTIMATION OF FOODGRAINS MARKETABLE SURPLUS:
AN INTER-FARM ANALYSIS

So far we have estimated the availability of marketable foodgrains in all the districts of U.F. over the years 1966-67 and 1983-84. In this part of exercise, we intend to estimate the marketable foodgrains (cereals and pulses separately) across different size-classes of land holding in each district. This exercise would lead us to identify land holding classes having lower or higher marketable surplus than all size-class average of the districts, regions and State as a whole. At the same time it would also be identifying the land holding classes which fail to generate the marketable surplus of foodgrains. In other words, with the help of present exercise we would identify the land holding classes having deficit and surplus marketable food grains in different districts of U.F. The present issue has great practical significance. The behaviour of marketable surplus across size-classes helps us to readily identify the non-viable holdings in different regions so that the weakness of agrarian structure can be assessed.

The behaviour of marketable surplus across size-classes can also indicate the possible effects of any redistribution of land following land reforms on the size of marketable surplus. For designing and implementing a procurement policy also how much of it is important to know / marketable surplus can be expected from a holding of a given size.

However, the present section takes into account only a single year i.e. 1980-81 to cover the exercise while the same deals with all the 56 districts falling under all the 5 regions of the State to estimate the marketable surplus of foodgrains.

#### Methodology

The first step is to estimate the land holding size-wise foodgrains production to get the size-wise figures of marketable surplus. But we know/land holding-wise figures of foodgrains production are not available within agricultural census. The other alternative may be to have yields of different sizeclasses of land holding to get the production figures but these too are not available. Ultimately, we are opting to use the formula adopted by Rajapurohit (1979) in which irrigation coverage is considered to have arrived at the figures of yields for different size-classes of a district. The Census gives the area under different cereal and pulses crops, irrigated and unirrigated, for each size of holding class. Assuming that under the prevalent crop production conditions in the State, irrigation mainly influenced the crop yields, we estimate the crop yields of cereals and pulses for different size of holding classes, through use of the following formula:

Yc/Pi =  $\frac{r c/pi}{rc/pt}$  x Yc/pt, where

Yc/pi = average yield (Y) of cereal or pulses crops in size class (i);

rc/pi = proportion of irrigated cropped area to total cropped
area (r) for cereals (c) or pulses (p) crops in size class (i);
rc/pt = proportion of irrigated cropped area to total cropped
area (r) for cereals (c) or pulses (p) crops in the case of all
cultivators (t), and;

yc/pt = average yield of cereals (c) or pulses (p) crops in the
cases of all cultivators (t).

The estimated yields are multiplied by the area under the cereals and pulses crops in each size-class and, the production estimates for cereals and pulses separately for different size-classes are arrived at.

There are, however, the gross production figures including some retentions which are to be aportioned from the production for estimating the marketable foodgrains surplus in different size classes. As mentioned in the preceding chapter the retention from the gross foodgrain production include:

(1) share of wages to agricultural labourers, (2) seed feed and wastage, (3) foodgrain for consumption, and (4) rent bill:

While estimating the wage bill for different categories of landholding size. it is assumed that no wages are being paid through marginal and small land holding classes. Thus the foodgrains for the payment of wages are not aportioned from the marginal and small landholding classes (upto 4th category, i.e. 2.00 hectares). The total quantity of foodgrains for wage bills in a district is distributed among the categories

of landholdings according to their percentage of production in total production of 5th to 4th size-class. To cover the seed-feed and wastage, 12.5 per cent from the gross production figure of each size-class is deducted as it is conventionally done. To estimate the consumption requirements, we have depended upon the most recent National Sample Survey (NSS) Round of Consumption. The NSS 32nd Round (1977-78) presents the per capita consumption of cereals and pulses foodgrains separately for the rural area for different size-classes of land holdings in different States. The annual per capita cereal and pulses consumption is arrived at with the help of per capita consumption figures for 30 days given in the NSS 32nd Round. The annual per capita consumption is multiplied by net adult population\* which is calculated for different landholding sizes for all the 56 districts.

Total leased-in area of cereals and pulses falling under different categories of landholding sizes available in the Agricultural Census is used to estimate the foodgrains for rent bill for different size classes. The leased-in area under different landholding sizes is multiplied by yields (calculated earlier) of respective landholdings to arrive at the total production under leased-in-area. Out of the total production under leased-in area under each size class 44.5 per cent is deducted to get the quantities of cereals and pulses for rent bill.

<sup>\*</sup>The number of persons falling below the age of 14 years a category are converted into adult population by getting it divided by two and then it is added with the rest of the population (of 14 and above age group) of the same category. Thus the figure arrived at is Net Adult Population.

All the four items calculated through different methods are deducted from the gross production of cereals and pulses of each size class to get the quantities of respective marketable surpluses.

## Proportion of Marketable Foodgrains Surplus in the State and Regions - Across Size Classes of Landholding

Our estimates are categorised under the fourteen sizeclasses of land holdings which can be merged into four broad
groups - Marginal, Small, Medium and Large landholdings. The
present section generally considers only percentages and
ratios of respective marketable surpluses and output in course
of analysis. The absolute figures are not given in the tables.
For the specific use and information the absolute figures are
given in the appendix.

#### State

The size-class wise percentage of marketable surplus of foodgrains to total output varies from 72.16 per cent to 50.05 per cent in the State as a whole during the relevant year (1980-81), the average of all size classes being 61.68 per cent. Strikingly the highest proportion of marketable surplus of foodgrains emerges in the size class of marginal and small landholdings. The lowest proportion of marketable surplus in total foodgrain is found in large landholding class. The proportion of the same in medium size class varies from 50.40 to 52.33 per cent. However, percentage of marketable foodgrains

surplus to total production is found to be moving in an ascending order. The percentage of the same varies from 71.09 to 71.83 in the marginal landholding class.

In the case of cereals, the proportion of marketable surplus to total cereal production varies from 66.03 to 40.76 per cent. The highest proportion lies in the marginal and the lowest rests in the large category of landholding. The all size-class percentage of marketable surplus to total cereal production is found to be 55.70 at the State level. The proportions of the same in the small to other size classes are ranging from 65.92 to 40.76 per cent respectively. Table 3.1 shows that the proportions of cereals marketable surplus are found to be moving in an decreasing order from marginal to large landholding classes.

The proportion of pulses marketable surplus in total pulse production comes out to be only 5.98 per cent at the State level. Contrary to the cases of cereals and total foodgrains production, it is found highest, 9.52 per cent in large land-holding size and lowest in medium (2.0 to 4.0 hectare) size class. A perusal of data indicates that the proportions of pulses marketable surplus to total pulses production kept on increasing from marginal to large land size classes except one dip in the size class of medium landholding group. As against the proportions of cereal marketable surplus, the proportions of pulses marketable surplus do not have so much purverse relationship with the landholdings of the different size classes.

Proportions of Marketable Surplus of Cereals, Pulses and Total Foodgrains in Total Foodgrains in Total Foodgrains Production Table 3.1 :

Tind holding Size	wes		Region	ast	ern Region	ion	Central	ral Region	lon
)     	CMS/%	% TP %	TMS/% TP		PMS/%	$_{ m TMS}/_{ m w}$	CMS/% TP	PMS/% TP	TMS/% TP
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All Classes	61.20	3.60	64,80	50,30	5,22	55,38	54.59	7.92	62.51
							AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	presentation and draw property sectors and	

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Land-holding Size	Bund	Bundelkhand	Region	1	Hill Region	200	rd .	s a W PMS	OH
•	CMS/% TP	PMS/% TP	TWS/% TP	CMS/% TP	MD/%	%)/CILIT	7. T. T.	TP %	TP %
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0.25	51. 51. 50.	20.93	72.82	66.62	1.13	67,75	65.23	6.19 7.09	71.83
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								18.0	
All Classes	40,13	23,09	63,22	69.97	1,09	71.06	55.70	5,98	61 <b>.</b> 68
								***	

But due to a very lower percentage in total marketable surplus these don't have any significant impact over the distribution of total foodgrains surplus in different landholding classes.

These estimates, in the cases of cereals and total foodgrains excluding the pulses' estimates are having resemblance with the studies conducted by Dharam Narain and Ranjit Singh and M.V. George (1969). In his study Narain found that marketable surplus as a proportion of output has declined as the size of holdings increased upto the size-class of 10.15 acres; and it rose steadily only thereafter along with the size of holdings. The holdings below 15 acres, according to Narain's study accounted for as much as 54.4 per cent of the marketable surplus. Even the holdings below 10 acres accounted for 46.5 per cent of the same. In our estimates as per Table 3.2 the holdings below 10 acres accounted for more than 78 per cent of the total foodgrains surplus. The proportions of marketable surplus of pulses and cereals upto the same holding sizes are found 72 and 79 per cent respectively. Singh and George's study as an extreme case of this kind shows that proportion of marketable surplus ranges from 88 per cent among small farmers with 1.0 hectare and below to 92 per cent among farmers with 4-5 hectares. However, the study conducted by Singh and George can not be referred and does not seem relevant in this connection because the study considers paddy for the estimation of marketable surplus that too for the two districts of Funjab. The Funjab farmer - even a small farmer - grows paddy mainly as a cash

2,62 6.17 7.94 11.37 113.36 23.29 12.92 6.10 0.63 5.07 100 2.98 3.66 1.70 1.58 10.06 14.44 23.29 29.25 7.40 0.40 0,23 100 TMS Ratios of Cereals, Pulses and Total Marketable Surplus 7 51 110 32 16 06 20 20 13 44 9 32 6 39 7 49 0 79 0 31 Eastern Region 100 PP 10 to 14 classes to al 9.57 14.55 20.57 26.02 8.79 60.9 100 PMS g 2.57 0.62 0.34 0.12 2,71 7.98 11.37 118.60 23.60 12.87 7.97 4.93 6.03 100 B CO 3.52 1.62 10 03 14 39 23 50 29 73 7 24 4 60 2 86 1,52 0,39 100 QMS and Respective Productions of Class 5.27 12.09 20.55 19.97 12.76 9.46 9.46 4.75 3,60 0.43 0.13 0.05 0.34 100 TP 0 4.21 3.20 0.38 6 11 14 05 23 91 15 06 11 34 0.11 0.05 0.30 3,46 79.6 100 TIMES 5.03 9.60 21.47 15.42 14.01 8.74 11.52 5.23 3.95 69.0 Western Region 100 PP 3.32 5.65 10.85 24.49 13.93 8.04 10.59 4.85 100 PMS 12, 23 20, 50 17, 06 12, 68 9, 50 10, 78 3,50 100 만 Table 3.2 3.10 11.15 11. 100 QMS 0.50 1.00 2.00 3.00 4.00 5.00 7.50 10.00 20,00 30.00 abov 40,00 Land holding Size All Classes and 0.25 0.50 1.00 2.00 3.00 4.00 10.00 20.00 30.00 5.00 0 Below Classes

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crop and depends on other crops for consumption.

Our estimates are indicating the existence of distress marketable surplus among marginal and small landholding classes. The proportions of marketable surplus have perverse relationship with output and contribute more than two thirds of the marketable surplus. Only a part of the marketable surplus could then be said to constitute a commercial surplus which has the normal forward slope character. Our estimates could have shown relatively far lower marketable proportions in the small size classes if the estimates would have been net of repurchased quantities. Other estimates under different studies such as of Usha Patnaik (1975) and Rural Debt and Investment Survey, seem to have over-estimated contributions of small farmers in the marketable surplus owing to the same reason.

#### Regional Estimates of Marketable Surplus

highest proportion of marketable food grains surplus in the marginal and small landholding groups. The percentage of the same is between 75.37 and 74.59 per cent in two groups. The bundelkhand region is next/the western region for having highest proportion of marketable foodgrains surplus in the marginal and small landholding groups. The percentage of the same in this region ranges between 72.81 and 73.36 per cent in two respective groups. These two regions are followed by the

Eastern and Central regions in this respect. Their percentages move around 70.16 to 70.33 and 69.66 to 70.16 in each region respectively. The lowest proportion of marketable surplus in total foodgrains has emerged in Hill region ranges from 67.18 to 69.37 per cent.

The highest marketable foodgrains surplus of marginal and small landholding groups in the Western region is indicative of higher yield level of favourable and advanced agricultural conditions prevailing in the region to benefit the small and marginal farmers. But this does not necessarily indicate that under these conditions the existence of distress marketable foodgrains surplus completely absconds in these landholdings of the region. Due to better agricultural conditions and marketing facilities magnitude of distress marketable surplus may appear relatively of lower order in these groups of the region. The higher proportion of marketable surplus in the small and marginal landholding groups in the Bundelkhand region reveals the lower pressure of population on the landholdings of the above group as compared to other regions of the State where the pressure of population on marginal and small landholdings is generally found to be very high. After Bundelkhand, the region having higher marketable proportion of foodgrains emerges is the Eastern region followed by Central Region. The Eastern region has higher proportions of marketable foodgrains surplus in the small and marginal landholding groups than those in Central region because in the former region 61

per cent of the total foodgrains production is produced by the small and marginal landholding groups. The share of output in total production of these groups in the Central region reaches only 53 per cent. The lowest proportion of total marketable foodgrains surplus of the Hill region in the groups of small and marginal landholdings indicates higher dependency of these groups on the foodgrain produce and their lower productivity level.

In case of large landholdings, the Western region ceases to have highest proportion of marketable foodgrains surplus. It is found highest in the Hill region. The proportion of the same ranges from 80.01 to 75.00 per cent in this region. The region having second highest proportion of marketable foodgrains surplus in large landholding class, is the Western region. The percentage of marketable surplus to its total production of foodgrains varies from 55.25 to 59.06 per cent. The Bundelkhand region occupies third position in this respect. The proportions of the same in large land-holding class range from 54.62 to 60.31 per cent. The Central region has 52.50 to 57.39 per cent of marketable foodgrains surplus in the large landholding class. The poorest proportion in this respect is held by the Eastern region where this proportion comes around 32.58 and 38.52 per cent only.

Like the proportions of marketed foodgrains surplus of large land holding sizes to the total production of all size-

class which are highest in the Hill region, the same proportions of medium size holdings are also found highest in the Hill region. These proportions are varying from 68.81 per cent to 72.33 per cent in this region. The highest proportions in medium size group next to the Hill region are found in the Bundelkhand region where the percentages range from 59.93 to 60.02. The third position in this respect is occupied by the Western region where the percentages come around57.51 to 57.98 per cent. The Western region is followed by the Central and Eastern regions in decending order. The proportion of the middle land holding groups foodgrain marketable surplus in the Central region varies between 32.79 and 56.05 per cent. Lastly in the Eastern region it is only in between 31.73 and 32.50 per cent.

Thus, it is revealed through interpretation of the data that the highest percentage of marketable foodgrains surplus to total production is accruing in the Hill region of the State. It is followed by the Western and Bundelkhand regions. The Central and Eastern regions turn to be the areas having the lowest percentage of marketable foodgrains surplus in their production. It is to be noted here that the surplus proportions having emerged in the middle and large landholding classes of the regions are really meaningful to the extent that they do not have distress marketable surplus.

In regard to proportions of the cereals marketable surplus in total foodgrain production in the groups of marginal

and small landholding classes, the Western region stands first. The percentage of cereal marketable surplus to total production ranges between 74.59 and 75.37. The Western region is followed by the Hill region in this respect. The proportions of the same under these groups in this region are varying between 65.17 and 68.35 per cent. The third place is acquired by the Eastern region where proportion of marketable cereal production ranges between 63.65 and 64.37 per cent. The Central and Bundelkhand regions have the lowest percentage in regard to the same. In the Central region it comes around 61.98 and 58.51 per cent whereas in the Bundelkhand region it could reach only a maximum of 55.34 per cent. Thus the Hill and Western regions are maintaining the pace by having highest proportions of cereals marketable surplus in the small and marginal landholding groups as in the case of total foodgrains marketable surplus. The proportions of cereals marketable surplus have stood lowest in this group in the Bundelkhand region as against the case of total foodgrains marketable surplus in which this region has the highest proportions within these groups.

The proportions of cereals marketable surplus to total foodgrain production in the medium size class of holdings emerges maximum again in the Hill region followed by the Western, Central and Bundelkhand region as evident from Table 3.1. The minimum cereal marketable proportion is found in the Eastern region which comes around 28 per cent.

The cereals marketable surplus of large land holding class is found maximum in terms of percentage to total production in the Hill region which accounts for 78.39 to 68.97 per cent. The other regions having lower proportion of marketable surplus than this region are the western, Central, Eastern and Bundelkhand in descending order.

It is observed through the foregoing interpretation of data regarding the proportions of foodgrains and cereals marketable surplus in different regions and the State, that in all cases, both the proportions are found declining while moving toward higher groups of land holdings. It transfers from the data that the difference between proportions of marketable surplus of small and marginal holding size-classes are minimum. The propertions of large holdings are far lower than small and marginal landholdings. At the same time, the proportions of large holdings are very near to medium holdings. Such types of differences in the proportions make us feel that the small and marginal holdings have highest distress marketable surplus in the cereal production. Marketable proportions of medium landholdings which are found very near to large holding sizes explain that these holdings have lowest amount of distress marketable surplus. The large holdings do not have any distress marketable surplus in either of the regions.

As mentioned in the beginning of this note, distribution of the proportions of pulses marketable surplus among different sizes of land holdings do not resemble the cereal marketable

surplus. The proportions of marketable surplus of pulses to to total production is found/increasing in large land holdings as compared to its proportion in small and marginal holdings in each region of the State. But at the same time it is found to be lower in medium land holding groups as compared to small and marginal groups in each region except in the case of Bundel-khand region. In the Bundelkhand region, it is found to be increasing in every successive larger land holding size-class including medium land holdings.

The existence of lower proportion of marketable surplus group of pulses in marginal/is due to quite small, share of pulses in foodgrain production because the marginal and small holders cannot allocate their land for pulses beyond certain limit. Whatever they produce have to sell the pulses for cash requirements.

The Bundelkhand region has the highest proportion of marketable pulses surplus (23.03%) in the State. The Bundelkhand region is followed by the Central, Eastern, Western and Hill regions. Their respective proportions of pulses marketable surplus in total production are found as 7.92, 5.22, 3.60 and 1.09 per cent respectively. Almost the same order of higher or lower proportion of marketable surplus is found amongst different land holding groups in all the region.

### Distribution of Cereals and Fulses Marketable Surplus in Different Size-groups of Land Holding

Cur estimates show that the share of marginal land holdings in the total marketable surplus of all foodgrains is to the level of 31.43 per cent at the State level. In the groups of small and medium holdings it is found moving from 25.46 per cent to 21.82 per cent, whereas large farmers with 4 hectares and more have accounted for 21.29 per cent of the total foodgrains marketable surplus. The corresponding share of output in total foodgrain production is found to be 27.07, 21.77, 26.28 and 24.88 per cent in marginal, small, medium and large holdings respectively (Table 3.2). It becomes clear from these estimates that the share of marketable surplus in the marginal holdings is higher than what the small, medium and large groups of holdings show. At the same time, it is also revealed that the share of marginal and small . land holdings in total production is lower than their share in marketable surplus. Under these conditions it is suspected that the marginal and small groups contain distress marketable surplus of foodgrains. In case of medium holdings, the share of total production is 26.20 per cent while their share in total marketable surplus is 21.82 per cent only. While observing the share of different land holdings in marketable surplus and output of cereals and pulses separately, almost identical results are found. The share of large holdings in cereals and pulses production is found higher than their share in the respective marketable surpluses. It is indicative of the fact that the large farmers are not selling

cut all the quantity of marketable surplus during the year.

Some of the portion of total marketable surplus is kept apart by them for later disposal.

The highest share of large holdings in marketable surplus is found in the Bundelkhand region. It varies from 43.71 to 49.04 per cent in regard to cereals and pulses separately. The lowest share of large holdings in total marketable surplus has appeared in the Eastern region. The share of marketable surplus for cereal and pulses separately in large holdings varies from 10.41 to 14.41 per cent in this region. The percentage of large holdings in total marketable surplus turns out to be 27.21, 26.35 and 15.22 per cent in the Hill, Western and Central regions respectively. The Hill region has appeared as the only region where the share of marketable surplus in marginal, small and medium holdings is found to be lower than their respective share in the total output. Presumably it is indicative of the fact that the magnitude of distress surplus is low in this region. The higher percentage share of marketable surplus under large holding size-class and lower of small and medium, in Bundelkhand region due to highly skewed distribution of land towards higher size-classes of land holdings.

The marginal and small land holdings are supposed to generate mainly distress marketable surplus and these land holding groups at least marginal ones are coming under the category of deficit foodsrain producing classes. The marketable

surplus of marginal land holding class may be ignored to check the share of large land holdings in the total marketable surplus. Under this test, we would find that the share of large holding in total marketable surplus reaches around 52 to 53 per cent at the State level. While exercising the same test in different regions of the State, it is found that the share of large holdings in total marketable surplus moves between 48.16 and 58.60 per cent in the Central and Eastern regions respectively. The shares of Western, Hill and Bundelkhand regions turn out to be 49.69, 53.74 and 57.49 per cent respectively.

eals and rulses, the marginal and small holders generate higher proportions of marketable surplus than what the others do.

But such higher proportions are partly due to non inclusion of wage rayment and largely due to concealment of the distress sale.

If land reforms - through ceilings and distribution of land - reduce the dominance of large holdings and increase the amount of area under small holdings, the marketable surplus of cultivators (for gross marketable surplus) may not decline.

The deficit roducing land holdings are transformed into surplus holdings through redistribution of land, their marketable surplus will increase.

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#### Chapter IV

# GROWTH ESTIMATES OF PRODUCTION AND MARKETABLE SURPLUS

Dynamic changes have taken place in U.P.'s agriculture with the spurt of HYV technology and adoption of modern and improved practices since the mid-Sixties. The New Farm Technology consisting of highly complementary packages of inputs has enhanced agricultural production and its marketable surplus. The changes in production and marketable surplus over a period of time indicate a process of transition in agriculture accompanied by some specific changes in the technical form and relations of production. But the process of transition resulting from the spurt of new farm technology has not been spatially uniform in agriculture because of spatial variations in the technical form and relations of production in agriculture. As a result, the flow of marketable surplus is also not uniform spatially in the agricultural sector.

Besides it is also held that element of stagnancy and growth are continuing side by side, resulting into fluctuations in the generation of marketable surplus also. In view of this, it would be of obvious interest to examine the growth trends of foodgrain production and its marketable surplus over a period of time in the State. Reliable estimates of these trends in foodgrain production and marketable surplus are not only interesting academically but also from the point of view of policy use and implications. Their use in predicting the

future may hardly be dependable but as measures of performance during a period, they have considerable significance to policy makers. 2

The main objective of this chapter is to estimate growth trends of foodgrain, cereal and pulses production and of their respective marketable surplus; and the factors which determine the flow of marketable surplus.

#### Methodology

For estimating growth trends and rates of production and marketable surplus of foodgrains, cereals and pulses, the following procedures are adopted. As the first step in the estimation procedure, we have prepared time series data of production and marketable surplus of foodgrains, cereals and pulses. The next step is to obtain the estimates underlying average annual rates of growth of various aggregates. It may be noted in this connection that the actual rate of growth over a specified period of time computed directly by considering only two end-points of any period is likely to be highly sensitive to the selection of the end-points in as much as the two end-points may differ from each other in several respects including the intensity of resource utilisation. We have, therefore, computed the required estimates of average growth rates by estimating the exponential trend term for the whole of the production and marketable surplus series. In other words, we have estimated the following equations of production and marketable surplus for

each district, region and the State as a whole during 1966-67 to 1983-84.

Xij = A.e<sup>bt</sup>

Where Xij is ith variable for jth district, t denotes the variable 'time', A is the constant term indicating the value of Xij at t = 0 and b is the estimated trend rate of growth per annum. Conveniently we have rewritten the above equation in logarithmic form as under:

Log Xij = Log A + bt

The estimates of the above quation obtained for production and marketable surplus of Cereals, pulses and total foodgrains for all districts and regions and State have been computed by using the standard regression technique.

### Growth Trends in the State

The growth trend of the total foodgrains production in the State shows statistically significant exponential time trend, the co-efficient of the exponential trend term being positive and statistically significant at one per cent level. The estimates of the equation also shows fairly satisfactory explanatory power. The similar trend is also visible in case of growth trend of cereal production also. Whereas the growth trend of pulses production at the State level not only turns out to be statistically insignificant but also negative indicating thereby that the pulses production in the State during

1966-67 to 1983-84 did not experience any significant growth rather it declined. The equation for which the estimated rate of growth of pulses production turns out to be statistically insignificant also exhibits a very weak explanatory power. In other words, the equation indicates that the growth rate of pulses production remained unaffected by the rate of change in time or by the rate of technical progress as following table denotes.

Table 4.1 : Growth Trends of Production and Marketable Surplus in U.P.

Sl. Particulars		PROI	UCTI	ON	
No. Idiciculars	Constar	nt Growth rates (%)	i T Val	ues R <sup>2</sup>	F Values
1. Cereals	11,589	4.636*	9.875	0.859	97.520
2. Pulses	10.282	-1.653	1.900	0.184	3.611
3. Total food- grains	11.814	3.807*	7.504	0.779	56.310
		<u>Marketal</u>	ole Surpl	<u>us</u>	
1. Cereals	11.145	5.534*	8.732	0.827	76.245
2. Pulses	9.842	-0.828	0.771	0.036	0.595
3. Total food- grains	11.371	4.696*	6.941	0.751	48.174

<sup>\*</sup>Statistically significant at 1 per cent level of significance.

Table 4.1 shows that the growth trend of the marketable surplus also responded to the rates of growth in production. The estimates for cereals and total foodgrains surplus show significant exponential time trend, the co-efficients of the growth rates are positive and significant at one per cent level, besides showing a high explanatory power. Contrary to it, the pulses marketable surplus not only showed insignificant growth ratio but also revealed the weak association with changes in time. What all this indicates is that in U.P. during 1966-67 to 1983-84, the rate of growth of cereals and total foodgrains marketable surplus corresponded with the growth rate of cereals and total foodgrains production. While the cereals and total foodgrains production and their respective marketable surplus increased with the technological changes in agriculture, the pulses production and its marketable surplus was adversely affected due to shifts in the cropping pattern in favour of other than pulses, such as wheat, paddy and sugarcane.

# Growth Trend in the Western Region

The regional estimates of the growth trends indicate that the co-efficients of the exponential trend terms of cereals and total foodgrains production as well as of cereals and total foodgrains marketable surplus were positive and significant at one per cent level of significance in the Western region.

But the positive changes observed in the growth trends of Cereals and total foodgrains production and cereals and

foodgrains marketable surplus were lower in the Western region as compared with the State level changes. The pulse production and its marketable also experienced negative growth rates in the region and the resultant co-efficients of the trend were highly significant as against the States level coefficient of growth trends of pulses production and marketable surplus. These characteristics refer to shift in the cropping pattern in favour of food crops like wheat and non-food crops like sugarcane whose cultivation is more facilitated by the technological break through and has this become comparatevely more profitable than pulses cultivation for the farmers. As a result, the expected higher growth of foodgrains could not be experienced there and pulses production was most affected. The following table reveals the growth pattern observed in production and marketable surplus of cereals, pulses and total foodgrains.

Table 4.2: Growth Estimates of Production and Marketable Surplus of Cereals, Pulses and Total Foodgrains in Western Region

S1: No. Particulars	Constant	Growth rates (%)	T Values	R <sup>2</sup>	F Values
	PRO	DUCTION			
<ol> <li>Cereals</li> <li>Pulses</li> <li>Total Foodgrains</li> </ol>	10.687 9.269 10.879	4.430 * 4.880 * 3.528 *	8.151 5.753 6.336	0.806 0.674 0.715	66.446 33.101 40.140
	MARI	CETABLE SU	JRPLUS		
<ol> <li>Cereals</li> <li>Pulses</li> <li>Total Foodgrains</li> </ol>	10.319 8.888 10.507	4.991* 4.454* 4.101*	7.504 4.481 5.959	0.779 0.557 0.689	56.317 20.078 35.504

statistically significant at one per cent level of significance.

The district-wise estimates of the trend equation which have been put in the Annexture I shows that the growth rates of cereals and foodgrains production and cereals and foodgrains marketable surplus were above the regional level nine districts out of the nineteen districts of the Western region. Those districts where the growth rates were above the regional level include Saharanpur, Shahjahanpur, Rampur, Pilibhit, Moradabad, Ghaziabad, Badaun, Bareilly and Aligarh. All districts of the Western region experienced negative growth rates in the pulses production and in the pulses marketable surplus, except in case of the Aligarh district which witnessed positive growth in the pulses production and pulses marketable surplus, although this too was insignificant. higher negative growth was observed in pulses production in the districts of Saharanpur, Rampur, Muzaffarnagar, Ghaziabad Meerut, Mathura, Mainpuri, Etawah, Bulandshahr and Bijnor in comparison with the regional level growth in pulses production. The districts of Saharanpur, Rampur, Muzaffarmagar, Meerut, Mainpuri, Etawah, Bulandshahr and Bijnor experienced the negative growth rates in pulses marketable surplus which was also above the regional growth in the marketable surplus of pulses. These different growth experiences of the different districts of the Western region indicate that only those districts experienced high growth rates in the production and marketable surplus of cereals—and total foodgrains where the commercialisation has been modest in regional perspectives.

The districts wherein agriculture is highly commercialised.

experienced high rate of decline in the production and marketable surplus pulses. This seems that pulses having more commercial value are substituted by those crops in highly commercialised districts because of their higher yield potentials and profitability. In Eastern region the rate of growth of growth of total foodgrains was 4.274 per cent during 1966-67 to 1983-84, while it remained only 3.528 per cent in the Western region, 4.194 per cent in the central region, 3.055 per cent in the Hill region, 2.322 per cent in the Bundelkhand region and 3.807 per cent at the State level during the same period.

Similarly, the Eastern region experienced growth rate of 5.514 per cent in the foodgrains marketable surplus where it was 4.101 per cent in the western region, 5.255 per cent in the Central region, 4.578 per cent in the Hill region, 2.649 per cent in the Bundelkhand region and 4.696 per cent at the State level. The estimated growth trend of the total foodgrains production and its marketable surplus in the Eastern region demonstrated statistically significant at one per cent level of significance. The same significance level was observed in other regions like Western, Central and Hill but most remarkably the estimated equations demonstrated the highest explanatory power in the Eastern region as against all other regions and State. Thus, the dominance of the Eastern region in the growth performance of foodgrains production and marketable surplus characterics fast 'pick-up' in its food sector with the

passage of time, while the Bundelkhand and Hill regions have still to do so.

ketable surplus were higher than the growth rates of cereals and total foodgrains production in the region itself. This phenomenon was evident in all other regions and the State also but exclusively the Eastern region emerged as the only region of the State where the negative growth in pulses production could not lead to the negative growth in the pulses marketable surplus. The the Eastern region emerged the only region among all other regions and of the State where (i) the growth experience of foodgrains production and its marketable surplus was highest during 1966-67 to 1983-84 and (ii) the region could maintain the positive growth in pulses marketable surplus, despite the negative growth in the pulses production. The following table shows the growth pattern of production and marketable surplus of foodgrains in the Eastern region.

The district-wise estimates of the growth trend which have been given in Appendix II shows that all the districts are experiencing the positive growth rates at one per cent level of significance in total production and marketable surplus except in case of Mirzapur district where the growth in production is less significant. The districts namely Allahabad, Azamgarh, Deoria, Faizabad, Ghazipur and Varanasi experienced growth rates above the regional level growth rates of total foodgrains production and all these districts along with Pratapgarh recorded

Table 4.3 : Growth Estimates of Cereals, Pulses and and Total Foodgrains Production and Marketable Surplus in Eastern Region

sl.	Parti <i>c</i> ulars	Constant	Growth Rates (%)	T Values	R <sup>2</sup>	F Values
1.	Cereals	10.492	RODUCTION 5.060*	10.631	0.876	113.029
			3.000		0.070	113.029
2.	Pulses	9.060	-1.123	1.417	0.111	2.007
3.	Total Foodgrains	10.619 MAF	4.274* EKETABLE S	8.706 SURPLUS	0.826	75.801
1.	Cereals	9.884	6.286*	8.937	0.833	79.871
2.	Pulses	8.528	0.194	0.190	0.002	0.036
3.	Total Foodgrains	10.099	5.514*	7.597	0.783	57.711

<sup>\*</sup>Statistically significant at one per cent level of significance.

better performance in cereals production. These districts excluding Azamgarh where the growth trends of cereals and total foodgrains production were above the regional level growth trends of cereals and total foodgrains production also recorded higher growth rates in cereals and total foodgrains marketable surplus. Only four districts namely, Allahabar, Bahraich, Jaunpur and Mirzapur have positive growth in pulses production while seven districts viz. Allahabar, Bahraich, Ballia, Ghazipur, Jaunpur, Mirzapur and Varanasi experienced positive growth in pulses marketable surplus and thus enabled the Eastern region to experience the positive growth in total pulses marketable surplus.

## Growth Tren's in the Central Region

The growth rates of production and marketable surplus of foolgrains were observed to be higher in the Central region as against the State level growth rates. The region even went ahead of the Western region in terms of increase in the foodgrains production and its marketable surplus growth rates but could not catch up the Eastern region of the State which emerged as the fastest growing region in terms of foodgrains production and its marketable surplus. The Central region experienced statistically significant growth rate of 4.194 per cent in the foodgrains production during the period 1966-67 to 1983-84 while the growth rate increased to 5.255 per cent in its foodgrains marketable surplus during the same period. The growth rate of cereals was 5.257 per cent in production and 5.255 per cent in marketable surplus resembled a similar trend. However, the pulses production and pulses marketable surplus demonstrated the opposite growth trends. The pulses production experienced negative growth rate of -1.812 per cent while the pulses marketable surplus showed negative growth rate of -.839 per cent as the Table 4.4 reveals.

The growth estimates of all the nine districts of the region which have been put in the Appendix III show that only two districts viz. Rae Bareily and Kanpur could achieve the growth rates in cereals and total foodgrains production higher than the regional level growth rates observed in cereals and

Table 4.4: Growth Estimates of Cereals, Pulses and Foodgrains Production and Marketable Surplus in Central Region

Sl. Particulars	Constan	t Growth Rates (%)	T Values	R <sup>2</sup>	F Values
		PRODUCTION			
1. Cereals	9.726	5. 257 *	5.566	0.659	30.980
2. Pulses	8.731	-1.812	1.814	0.171	3 <b>.</b> 292
3. Total Foodgrains	10.012	4.194*	4.601	0.570	21.168
	<u> M</u>	ARKETABLE S	URPLUS		
1. Cereals	9.221	6 <b>.</b> 329*	5.037	0.613	25.370
2. Pulses	8.243	-0.838	0.659	0.026	0.435
3. Total Foodgrains	9.510	5.255*	4.266	0.532	<b>1</b> 8 <b>.</b> 203

<sup>\*</sup>Statistically significant at one per cent level of significance.

barabanki could also manage to achieve higher growth rates in cereals and total foodgrains marketable surplus as against the regions growth performance in cereals and total foodgrains marketable surplus. However, there was only one district in whole of the Central region namely Kanpur where the growth rate of pulses production was positive (1.0269 per cent) and only three districts, Kanpur, Fatehpur and Rae Bareily have the positive growth rates in pulses marketable surplus. The districts where the decline in the pulses production and

marketable surplus was higher than the regional level declines care Barabanki, Hardoi, Kheri, Lucknow, Sitapur and Unnao.

#### Growth Trends in the Hill Region

The Hill region of the State, a major of which is not worthy for agricultural production has observed the rates of growth in the foodgrains production and its marketable surplus much lower than the State level. However, the Tarai part of the region has witnessed a revolution in the production of some cereals like paddy and wheat. As a result, the region as a whole has experienced significantly positive rates of growth in the production and marketable surplus of cereals and foodgrains. However, the pulses production and its marketable surplus have suffered in the region and so its production and marketable surplus recorded a negative growth rate of -3.294 per cent and -2.615 per cent respectively as the following table highlights:

Table 4.5: Estimates of Cereals, rulses and Foodgrains Production and Marketable Surplus in Hill Region

Sl. Particulars	Constant	Growth Rates(%)	T Values	R <sup>2</sup>	F Values
		RODUCTION			
1. Cereals 2. Fulses 3. Total Foodgrains	8.956 5.615 8.990	3.201* -3.294 3.055*	3.200 4.589 3.118	0.390 0.568 0.378	10.238 21.061 9.725
	1	LARKETABLE	SURPLUS		
<ol> <li>Cereals</li> <li>Pulses</li> <li>Total Foodgrains</li> </ol>	8.360 5.147 8.399	4.760* -2.615 4.578*	3.048 2.934 2.982	0.367 0.350 0.357	9.293 8.608 8.892

<sup>\*</sup>Statistically significant at one per cent level of significance.

Table 4.5 indicates that although the Hill region experienced positive growth of one per cent significance level in the production and marketable surplus of foodgrains but explanatory power of the equations (R<sup>2</sup>) are very low to the extent of only 37 per cent respectively which indicates that change in production with change in time was very slow in the region.

The district-wise analysis of the growth trends as given in the Appendix IV reveals that only Nainital district managed to achieve the highest growth in the production and marketable surplus of the cereals and total foodgrains. This could be possible because of contribution of Tarai part of the district in the total production of the Nainital district. Some districts like Almora, Garhwal, Chamoli and Tehri Garhwal have negative growth in cereals, pulses and foodgrains production. Among these districts, Almora, Chamoli and Tehri Garhwal even have negative growth in the cereals, pulses and total foodgrains marketable surplus also.

# Growth Trends in the Bundelkhand Region

The growth experiences of the Bundelkhand region in the production and marketable surplus of cereals and total foodgrains have been worst among all the regions of the State. The erratic nature of the rainfall along with the low level irrigation facilities made conditions unfavourable for increasing the cereals and total foodgrains production. However, the region managed positive (though insignificant) growth in the production and

marketable surplus of cereals and total foodgrains. The prevailing techno-economic conditions of farm production do not leave any options to the Bundeli farmers but to produce given crops in this region. Consequently, the Bundelkhand region is the only region of the State where the pulses production and their marketable surplus could have positive growth during the study period, although these growth rates are not much significant as is shown in the following table:

Table 4.6: Growth Estimates of Cereals, Pulses and Foodgrains Production and Marketable Surplus in Bundelkhand Region

Sl. Particular	Constant	Growth Rates(%)	T Values	R <sup>2</sup>	F Values
1		PRODUCTION			
1. Cereals	8.816	2.471	1.952	0.192	<b>3.</b> 810
2. Pulses	8.285	2.095	1.561	0.132	2.436
3. Total Foodgrains	9.280	2.332	1.834	0.174	3 <b>.</b> 363
		MARKETABLE	SURPLUS		
1. Cereals	8.485	2.752	1.736	0.158	3.013
2. Fulses	7.951	2.478	1.501	0.123	2.254
3. Total Foodgrains	8.948	2.649	1.666	0.148	2.774

(All the growth rates are insignificant)

The above table also shows that despite the positive growth rates observed in the production and marketable surplus of cereals, pulses and total foodgrains, the estimated equations revealed the

lowest explanatory power as compared with all equations of the other regions and State. This indicates that the Bundelkhand region has been the most slow growing region of the State.

The district-wise equations of the growth trends which have been given in the Appendix V shows that the Jalaun district was the only district of the region where the growth in production and marketable surplus of cereals, pulses and total foodgrains were positive and statistically significant too. regional estimates of growth trends indicate positive and significant coefficients of the exponential trend terms for both, production and marketable surplus of foodgrains and cereals in the Western, Eastern and Central regions. But the coefficients are low in the Hill region and insignificant in the Bundelkhand region due to some obvious reasons as mentioned elsewhere. The regression analysis of growth estimates also show (a) fast pick up in the food sector of the Eastern region; (b) negative growth in production and marketable surplus of pulses in most of the regions and districts of the State, and sharp decline in pulses cut, ut and marketable surplus in the Western region which contributed half of the State's total output and marketable surplus of pulses in the mid-Sixties. In fact, pulses output and marketable surplus have declined in most of the districts of the State. Those districts of the Western region wherein agriculture is taken to be highly commercialised have not only experienced declines in pulses output and surplus but have also experienced lower rates of growth in foodgrain production and marketable surplus. Notably among them

are Saharanpur, Muzaffarnagar, Bulandshahr and Meerut.

However, the performance of agriculture in the Eastern region provides some relief to the State in respect of foodgrain production and its marketable surplus. This region is also not bad in respect of pulses production in comparison to the Central and Hill regions. An over situation presents disappointing picture about pulses output and marketable surplus in the State as a whole. Contrary, Jhansi was the exclusive district where the growth rates in the production and marketable surplus of cereals, pulses and total foodgrains were all negative.

### Determinants of Marketable Surplus in Foodgrains

The crucial question that engages attention of economists working on this problems is as to whether surply of marketable surplus shows normal expected behaviour with respect to price, output, rent and wages and the response is significant and elastic. The question becomes particularly important in the wake of our results which show sizeable amount of marketable surplus in the total foodgrains production. An attempt is made in this part to analyse the factors responsible for regional variations in marketable surplus of foodgrains in Uttar Fradesh.

## The Explanatory Framework

Variations in the level of foodgrains marketable surplus between the regions and state as a whole during the year 1980-81 for which data are available in this study are analysed

in relation to the following factors at the regional and State levels.

- 1. Gross quantity of foodgrains output
- 2. Total quantity of foodgrains paid to agricultural workers as wages
- 3. Total quantity of foodgrains paid to tenants in the form of rent
- 4. Average largest prices of foodgrains

The list of these four factors, considered to be relevant in explaining the regional variations in the flow of marketable surplus is in no way exhaustive and many more factors could have been considered. However, we have limited our analysis to consideration of these factors only in view of the constraints on data availability. All the variables that are relevant and for which data are available at the district level are considered in our analysis.

Variable 1 indicates total output of foodgrains as the sole factor to increase the marketable surplus of foodgrains. Positive association between the foodgrains output and marketable surplus is expected.

Variable 2 represents the amount of the entire foodgrains paid to agriculture in the form of wages. Other things remains the same, an increase in the amount of total wages is expected to reduce the quantum of marketable surplus. Thus, negative association is anticipated between wages in the form of foodgrains and marketable surplus.

Variable 3 relates to the quantity of foodgrains paid by tenants cultivators for operating leased-in area. Its association with the foodgrains marketable surplus depends on the mode of tenancy prevailing in a particular region. The prevalence of feudal or semi-feudal mode of tenancy in any region may act as a constraint on flow of marketable surplus because rent payment provides no incentive to produce more to the tenants. Under such condition, the association between the rent and marketable surplus would possibly emerge either negative or insignificantly positive depending on the magnitude of exploitation of the tenants. The capitalist mode of tenancy presents quite different situation from the former one. Hence association between quantity of the marketable surplus and total amount of rent in such cases is likely to remain positive.

Average harest prices of foodgrains, categorised under variable 4, are expected to maintain positive association with marketable foodgrains surplus. Higher level of average harvest prices is supposed to encourage generation of more marketable surplus. But this case may be subject to how these prices are remunerative and to the form of commercialisation in agriculture. It is, however, assumed here that marketable surplus is positively correlated to harvest prices.

### The Analytical Model and Results

A linear regression model is fitted to the data available for the 56 districts, for which marketable foodgrains surplus

data are available, to find out the factors influencing the variations in foodgrains marketable surplus between regions and their respective significance. The model used for the analysis is as follows:

 $Y = A+b_1x_1+b_2x_2+b_3x_3+b_4x_4$ 

where Y = Quantity of marketable foodgrains surplus (qtls)

 $x_1$  = Quantity of foodgrains output (qtls)

x<sub>2</sub> = Total quantity of foodgrains paid as wage to agricultural workers (qtls)

x<sub>3</sub> = Total quantity of foodgrains paid as
 rent (qtls)

 $x_4$  = Average prices of foodgrains (Rs./qtls)

 $b_1$  = Farameters to be estimated

According to regression results of Table 4.7, the positive responsiveness of the foodgrains marketable surplus with respect to output turns out to be highest in the Hill region. The association between them is found to be lowest in the Eastern region. The coefficients of regression estimates for the Hill, Central and Western regions are having higher values as compared to State's coefficient. The coefficients with respect to marketable surplus and foodgrains output are statistically significant at one per cent level in all four regions and also in the State. One point, relating to the positive the association between the two is that output of foodgrains, as an independent variable in the regression analysis, has been considered in quantitative terms. In the prevailing agriculture market system, output alone

Regression Results for Different Regions and States as a Whole Table 4.7:

	1	Regi	gression Coef	efficients		7
Equation	2 Constant	×	x x	e ×	x <sub>4</sub>	¥
1. $x_1 x_2 x_3 x_4$ (Western Region)	-0.353455 (0.364236)	-0.800356 (0.031649)	-0.844261 (0.114143)	3.606709 <sup>X</sup> (5.636840)	0.017365 (0.182690)	0.984
2. $x_1 x_2 x_3 x_4$ (Eastern Region)	-0.718552 (0.333436)	0.673891 (0.046885)	_0.569180 (0.211476)	2.076172 (5.493900)	0.351639 (0.160763)	0.992
3. $x_1 x_2 x_3 x_4$ (Central Region)	-0.738190 (0.667415)	0.809531 (0.064851)	-0.860237 (0.473915)	-3.224915 (1.840329)	0.196045	0.984
$^4 \cdot x_1 x_2 x_3 x_4$ (Hill Region)	-0.142136 (0.402932)	0.831329 (0.025465)	_1,700989 <sup>X</sup> (1,772479)	47.049310 (35.504340)	-0.088326 (0.251663)	666.0
5. $x_1 x_2 x_3 x_4$ (Uttar Pradesh)	-0,496994 (0,220696)	0.782124 (0.020059)	-1.105786 (0.099809)	-3.776695 (1.417942)	0.228432 (0.125090)	0.975
*** Significant at 1% level	% level	** Significant	t at 5% level	* significant	at at	10% level

Xsignificant at 20% level

(Figures in parentheses indicate standard errors of the regression coefficients)

does not determine the supply of foodgrains but prices play an important role in the determination of foodgrains supply. Hence it is also important to consider the prices to get the realistic picture of marketable surplus.

The association between the average harvest prices of foodgrains and marketable surplus is explained through regression coefficient number x, in the equations. Out of four, two regression coefficients relating to the Eastern region and the State show positive and statistically significant (at 1 per cent and 5 per cent levels respectively, association between marketable surplus and average harvest prices of foodgrains. In the Western and Central regions, though association is positive, the same is found to be very weak and statistically insignificant also. the Hill region, the responsiveness of marketable surplus to the harvest prices is found as negative but it is statistically significant too. The results of the Eastern region and the State with respect to association between the two, hold true according to our expectations. According to the results an increment in the marketable surplus is expected as a result of simultaneous increase in the average harvest prices of foodgrains in the Eastern region and the State. A higher increment in marketable surplus is expected more in the Eastern region than/the State. According to the results, in the Western and Central regions, farmers did not respond significantly to any change in the harvest prices. In the Hill region, the marketable surplus is found to be reducing as a result of change in the harvest prices.

However results were found statistically insignificant in all three cases.

The negative or indifferent responsiveness of marketable surplus to the harvest prices in the three regions support the arguments of Mathur and Ezekiel (1961). They argued that on account of fixed monetary obligations to meet the payments of rent, debt, and limited needs of non-agricultural goods, the subsistent farmers responded negatively to price stimuli in their sales behaviour. Dandekar (1964), however, pointed out that the small farmers sold little of their foodgrains and depended on other sources to meet their cash needs, such as sale of other crops, wage-labour, and remittances received. The prices, he said, affected them as consumers rather than as producers and thus the Mathur-Ezekiel proposition had little applicability in their case. Another study conducted by Kalpana Bardhan (1970) also arrived at a negative price effect on marketable surplus of foodgrains, though output had a positive effect.

To get the results of association between marketable surplus and the harvest prices, we have considered the prices and estimated marketable surplus of the same.year. The time lag aspect is not taken into account in this exercise. Some clear and significant results may be expected out of consideration towards the marketable surplus in a succeeding year with the prices relevant to the same year.

Relationship between marketable surplus and wages turn out to be negative as per our expectations. It is found highest in the Hill region which is followed by the Central, western and Eastern regions in descending order. Only Hill regions coefficient is found to be above the State level, but its significance level turns out to be very low (20 per cent level). Rest of the three coefficients are found significant at one per cent except in the case of the Central region - which is significant at 5 per cent level.

Existence of negative association between marketable surplus and the wages explains for the persistence of lower real wages in different regions of the State. In many studies it is found that despite rise in the money wages the real wages are either stagnant or going down. In the case of high labour productivity/bargaining power, association between the two may come to positive.

The association between marketable surplus and rent bill is measured through coefficient no.  $x_3$  of the equation. Their association is found positive in the Hill, Western and Eastern regions, though, it is found to be insignificant in the Eastern region. Its significance level is 10 and 20 per cent in the Hill and Western regions respectively. Coefficients of regressions have appeared negative and significant in the Central region and at the state level. Their significance levels are found to be 10 per cent and 1 per cent respectively.

The positive association between marketable surplus and rent bill in the Hill and western regions explains for prevalence of the liberal tenancy rules in these regions which allow to grow the rent bill along with higher marketable surplus. The negative association in the Central region and also in the State makes it clear thatin most of the rural areas of the State, particularly in the Central region, the feudal or semi-feudal mode of tenancy is still persisting. It has kept the share of tenant cultivator to the minimum through its exploiting character. Betterment in the prevailing rules of tenancy particularly in the worst effected areas may increase the share of tenants with the change in production and marketable surplus.

The regression model explained the variations in the marketable surplus of the foodgrains in five different equations to the extent of 97 per cent. The minimum being 98 per cent contained in equation 5 pertaining to the State.

Considering the above results, many problems are still coming up. The question of marketable surplus has to be analysed in the wider perspective of commercialisation, magnitude and development of home market in its various dimensions.

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### Chapter V

#### CHARACTERISTICS OF THE MARKET ARRIVALS

Market arrivals of agricultural produce do not reflect actual marketed surplus. Actual marketed surplus is that part of the produce which inters the product market through the process of inter-exchange between farmers and different marketing agencies and finaly between consumers and different marketing agencies or traders. Hence a major part of marketed surplus which can be estimated on the basis of non-agricultural population and consumption per head of this population, remains hidden in the regulated market. As a result, the data on market arrivals as supplied by the Government agencies do not reflect the actual marketed surplus of the agricultural produce. The concealed part of the actual marketed surplus does not appear in the regulated part of the product market because of the interlocking of product, labour and credit markets.

The proportion of market arrivals to output largely depends upon the productivity of labour force engaged in the agricultural sector. In countries or in the areas where the pressure of workforce on agriculture is low or productivity of labour is relatively high, a larger proportion of the output is sold in the market. However, in backward economies or areas the paradoxical situation arises in which inspite of higher population pressure, a major part of the output is marketed. In such conditions, the produce

sold by the farmers is not the actual marketed surplus but the representative of the forced market participation of the farmers under various constraints. 1 The agricultural marketing system in these areas is also very typical which regulates the quantum of market arrivals. The farmers mostly remain trapped under the vicious circle of debt which compels them to sell their surplus to money-lenders or to various marketing intermediaries. These intermediaries produce the surplus at lower price and by way of speculative practices the surplus is brought to the market. Such speculative tendencies in the agricultural marketing are not beneficial to non-farm sector only but also for agricultural growth itself. Thus any effort to speed-up growth in agriculture in such areas gets setback from the market forces. Existence of inefficiencies in the agricultural marketing system have prompted the Govts. to intervene in agricultural marketing system. The basic idea underlying these marketing policies is to secure the interests of both producers and consumers. The policy measure which assumes to protect the interests of the farmers most is of 'Market Regulation'. This policy measure has been very extensively adopted in our country. If the farmers are really benefited from this measure it will reflect from the increase in the market arrivals. Though data on market arrivals at primary markets are collected by the Directorate of Economics and Statistics, Government of India and by the market intelligence wing of the Directorate of Agriculture in U.F. they have significant limitations. Bardhan and Thamarajakshi have listed them as 2

(i) except in case of Funjab and Haryana, these data do not cover all of the primary markets in foodgrains and also the markets for which the data are collected have been different in different thus making it difficult to construct comparable time series ...., (ii) it also do not cover entire foodcrops, (iii) the problem of identification becomes particularly difficult if in an attempt to evade the trader's levy or inter-state restrictions on private trade, parts of the marketed surplus get diverted away from the organised wholesale markets. However, in keeping view of all these limitations, the attempt has been made here to observe the behaviour of market arrivals.in the State of U.F. during 1966-67 to 1983-84. The data source of market arrivals is the market intelligence wing of the Directorate of Agriculture, U.P.

# Production and Market Arrivals

The total quantum of 16049078 quintals was the foodgrains market arrivals in the State in 1966-67 whose proportion in total foodgrains output was as low as 13.98 per cent. It increased to 35534374 quintals in absolute quantity during 1983-84 but its share in total production decreased to 12.20 per cent. The Cereals market arrivals although increased much in physical magnitude but its proportion with total foodgrains output increased very marginally by less than on per cent during 1966-67 to 1983-84. The market arrivals of pulses declined in absolute terms along with its share in total production of foodgrains during 1983-84 from 1966-67 as Table 5.1 shows:

Output and Market Arrivals of Cereals, Pulses and Total Foodgrains from 1966-67 to 1983-84 in U.P. Table 5.1:

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	ercent	col.4	col.3	9	32	12.	22	17.	22.	18.	19.0	39,6	20°6	21.5	25.3	25,5	8	77.	21,1	31,5	23.5	25,5
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The same table reveals that the proportions of cereals and total foodgrains market arrivals could not increase in those years in which the total production of cereals and foodgrains were higher. It leads us to interpret that the market arrivals of foodgrains in the State are not very much responsive to out-It is the market forces other than farmers which affect or condition market arrivals. These non-producing market forces have their grip over the agricultural production structure so tight that they have successfully regulated the foodgrains market arrivals never to exceed a low proportion of 19.41 per cent of total foodgrains output during the years 1966-67 to 1983-84. It does not mean that the market arrivals are as low as observed by us. Various micro level studies have observed the marketed surplus as proportion of output to be high as 68 per cent for all foodgrains. It means that at the State level also the market arrivals are definitely larger than what is published by the Government. The possibility of underhand dealings of the market authorities with the traders are hardly to be ruled out and necessitates the independent estimation ofmarketed surplus in the State.

# Marketable Surplus and Market Arrivals

The extent to which market arrivals appear as a part of marketable surplus is of immense significance in academic and policy formulations. The proportion of the market arrivals to marketable surplus indicates how much of the surplus does not enter the market and remains as concealed in the product market

The reliability of the market arrivals data is doubtful and so the percentages thus worked out from market arrivals data in relation to marketable surplus are also doubtfully reliable. However, with this limitation in mind we have calculated the percentages of cereals, pulses and total foodgrains market arrivals to their respective marketable surplus. The following characteristics emerge from Table 5.2:

- (i) The share of market arrivals in marketable surplus has been very low in case of cereals and total foodgr ins. The maximum proportions were 37.76 per cent of cereals and 37.29 per cent of all foodgrains in 1971-72.
- (ii) The proportion of market arrivals of pulses to their total marketable surplus was also low but exceptionally in few years like 1966-67, 1973-74 and 1979-80 this has been substantially high. These years were severely drought affected years in the State and hence during these years cereals production was reduced leaving with only alternative to the farmers to market most of their pulses surplus.
- (iii) The proportionate figures of market arrivals marketable surplus for all three, indicate instability in the regulated market, so far the arrivals of foodgrains, cereals and pulses are concerned.

In brief, the same table refers to the concealment of a large part of marketable surplus in the regulated market of agricultural produce.

Table 5.2 : Share of Market Arrivals in Marketable Surplus of Cereals, Pulses and Total Foodgrains from 1965-67 to 1993 -84 in U.P.

9		Pagen- of col. 3 in co.7	6		.5	. 2	<u>ः</u>	<b>∂•</b> 03	. 2	77.	2	2.0	ο. Ω	31,23	7.7	1.7	7	٠.	3.7	- -	6	
	odgrains	s <u>Market</u> Arrivals	<b>&amp;</b>	1,1907	52000	703931	164460	044942	375392	047529	20200	733630	074473	33214662	404479	199027	260381	239782	38088	46599E	553437	
		Marketable Surplus		2066	30.26	9057	106	0.134	511	5635	2395	7554212	0401217	100413040	2201091	3214029	371703	5409903	5312497	5798307	0297327	
		Percentage of Col.5 in Col.4	9	5.3	2,1	4.5	2,9	3,5	4.0	ਹ•ਹ	4	€. 4	5.7	45.40	3,0	4.6	1,9	3,6	0.00	9.2	0.4	
	Pulses	Market Arrivals	2	56 234	01837	22581	86306	93681	25939	70190	34597	49363	47035	52220	30516	46423	68601	07978	97790	05512	S	
		Marketable Surplus	7	0714	3174	6233	7310	603C	5126	5904	8137	1703	4132	4365	4652	4517	2705	5118	2022	4920	15359570	
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#### Composition of the Market Arrivals

As we have already observed that the proportion of cereals marketable surplus to total marketable surplus has significantly increased while the pulses marketable surplus has gone down over the years. A similar trend is also evident from the composition of the cereals and pulses market arrivals in total foodgrains arrivals. The arrivals of the cereals and pulses were 59.11 per cent and 40.89 per cent respectively in 1966-67, But former increased to 82.50 per cent in 1983-84 and the latter went to down 17.50 per cent in 1983-84 as Table 5.3 indicates.

It is evident from the same table that the market arrivals of pulses have been gradually replaced by the market arrivals of the cereals. This phenomenon is the outcome of the emergence of the situation during the post-Green Revolution period in which the pulses cultivation is rendered to be less profitable then the cereals cultivation. Thus the pulses production was replaced by cereals and other crops and marketable surplus and market arrivals of pulses declined.

In order to sum up the above, the following may be noted: Firstly, the market arrivals do not reflect real marketed surplus. Secondly, the arrivals do not show any consistent trend. Thirdly, given the arrivals of foodgrains, the share of market arrivals of pulses has substantially declined. Finally, a large part of marketable surplus remains concealed in the regulated market.

composition of the Market Arrivals in U.P. from 1966-67 to 1983-84 Table 5.3:

Years	Cereals	<b>P</b> ulses	Total Foodgrains	Cereals	Pubs	Total	
9 - 996	4867	562	04907	o,	ω		
1967 - 68	12269725	4018370	16288095	75,33	24.67	100,00	
9 - 896	8134	225	06931	$\dashv$	4		
7 - 696	7816	863	64468	S	0		
970 - 7	4626	986	44942	9	7	(	
971 - 7	4645	289	25392	4	0		
972 - 7	7733	701	47529	o,	0		
973 - 7	5040	345	85000	c,	m		
974 - 7	8427	493	33638	4	0		
9752 7	2743	470	74473	α	0		1
7 - 976	3924	522	91466	o	C		02
7 - 776	7396	305	04479	ď	υ		
978 - 7	5059	484	99027	4.	7		
8 - 676	9178	989	39782	o	0		
8 - 086	3180	079	39782	o	9	. •	
981 - 8	8307	776	80862	Ç,	0		
982 - 8	8048	855	62995	ຕໍ	Ω		
983 - 8	3159	218	53437	2	5		

Figures in bracket indicate percentage of cereals and pubs in total foodgrains. Note

#### REFERENCES

- <sup>1</sup>Gupta, R.P. (1973), Agricultural Prices in a Backward Economy, Nation Publishing House, New Delhi, p.145.
- <sup>2</sup>Bardhan, Kalpana and Thamarajakshi quotated from Nadkarni's M.N. book "Marketable Surplus and Market Dependence in a Millet Region", Allied rublishers Pvt. Ltd., New Delhi, 1989, pp.49-50.

## Chapter VI

#### CONCLUSION

mere quantitative exercise but also qualitative one. Its quantitative exercise is needed for assessing the flow of marketable surplus that affects the process of growth in various ways in a developing economy. In view of this idea, a modest attempt has been made for estimating the flow of marketable surplus of foodgrains, cereals and pulses relating to all regions and districts of the State of Uttar Fradesh. The region-wise and district-wise estimates of marketable surplus cover the years from 1966-67 to 1983-84. Moreover, one point-time analysis of inter-farm estimates of the surplus is also attempted at the inter-regional and intra-regional levels of the State. The reference period of this analysis is the year, 1980-81.

The estimates of marketable surplus are based on certain assumptions, so far the consumption requirements of cultivators, wage payment, rent bill, seed and seed-wastages are concerned - whether the estimates are temporal or cross-sectional at a point of time. Hence the validity of the estimates is based on the realism of the assumptions which have been introduced as proxies to estimate the above substractive components of the produce.

The estimates of marketable surplus of foodgrains and cereals show an increasing trend in the State since 1966-67 to 1983-84. The same trend is also found in most of the regions

and districts of the State. Briefly speaking, the estimates reveal the following: (a) the flow of marketable surplus has at grown at a higher rate than the rate/which production has increased during 1966-67 to 1983-84; (b) there have declining trends of growth in the production and marketable surplus of foodgrains and cereals in the western region; and (c) the Eastern region has experienced 'fast pick-up' in its food sector as a result of which both, production and marketable surplus of foodgrains and cereals have shown consistently an increasing trend of growth.

The inter-regional growth estimates of production and marketable for foodgrains and cereals present positive and significant coefficients of the exponential trend terms in the western, Eastern and Central regions. In respect of the Hill region, the coefficients are positive but weak, so far the explanatory powers indicate. The Bundelkhand region present them positive but not significant. However, at an overall state level, they are both positive and significant. In this way, the growth estimates present an optimistic picture in the State of Uttar Pradesh.

So far the production and marketable surplus of pulses is concerned, the estimates show disappointment at all levels, regional (Bundelkhand being an exception), district and State. The estimates refer to sharp declines in the production and marketable surplus of pulses in the Western region in particular. The region which was generating half of the production marketable surplus of pulses of the State in 1966-67 generated only about 20 per cent of that surplus in 1983-84. In this respect, there

has been some increase in the Eastern region but in the Central region, there is constancy. The Hill region has also experienced decline during 1966-67 to 1983-84. However, the inter-regional regression analysis of growth estimates tells otherwise study.

The rates of growth in production and marketable surplus of pulses are negative in the Central and Hill regions and in the State as a whole. The growth rates are, however, positive in the Western and Bundelkhand regions. In the Eastern region, the growth rate of pulses production has been positive but insignificant and that of marketable surplus is negative.

Market arrivals conceal a large part of marketed surplus and reflect a small part of potential surplus in the market. The inter-farm estimates of marketable surplus of foodgrains and cereals show that the marginal and small holders generate a sizeable proportion of marketable surplus in all regions, and the State. But estimate of their marketable surplus do not include wage payment and repurchases that they have to undertake due to food deficit. This refers to the case of involuntary involvement of the marginal and small producers in the market. A limited exercise to regress the determinants of marketable surplus shows that production matters most in generating the surplus flow. The other factors like wages, rent, and harvest prices do not affect the flow of surplus significantly but in a quite limited sense. This result may be on account of the inter-locking of the product, land, credit and labour markets.

District-wise Production and Generation of Foodgrains Marketable Surplus in the Western Region Appendix I:

						A 1G R	∀							
ДQ	Year	C. Prod.	O. R.	C.M.S.	%1	%2	P.Prod.	P.R.	P.M.S.	%1	%2	ďĽ	T.M.S.	%
$  \cdot  $				4	9	9		හ	6	10	11	12	13	14
	-99	12.9	873.	6666	5	0	18,3	88.2	30.1	-	3	491.	330.0	(
-1	967-6	192.7	763.0	4 29.6	0	5	462.5	6.80	53,5	O	9	555	383.7	ı
Н	968-6	407,5	002.3	405.2		9	37.2	73.4	63.8	2	ά	544.8	0.690	ω
-1	2-696	275.3	101.1	174.2	о О	9	424.7	78.9	45.7	C	C	700.0	120.0	vo
-1	2-016	9.999	233.4	433,2	·-	-	754.7	49.0	05.6	2	-	421.3	838.0	m
<b>—</b> і	97117	056.3	228.6	827.7	ဖ်	υ,	64.6	87.8	76.8	✓H		021.0	404.5	(0)
-1	972-7	8.866	211,3	787.4	6		71.0	11,4	59.5	C	2	3,697	247.0	0
<b>т</b>	973-7	875.7	205.0	920.6	2.	0	16.2	74.4	41.8	N		291.9	912.4	ന
-1	974-7	513.4	029.8	483,5	2	4.	18,3	35, 3	83.0		, d	331.7	966.5	(
<del>~</del> 1	975-7	327.4	148.9	178,4	-	0	95.0	43.6	51.4	ω,	5	322.4	329.8	10
<del>, , i</del>	2-946	520.2	196.4	323.7	7	-	22.8	47.6	75.1	3		543.0	998.9	
<del>- 1</del>	2-11-1	325.2	213,6	111,5	o*	o	84.D	22.6	61.4	, ,	Υ.	209.3	572.9	m
Н	978-7	686.	34.6	3	87.2	53.0	690,12	270.14	19	2		376	27.2	_
-1	979-8	784.1	4 28, 2	355,8	۲.	ď	92,3	01,2	91.0	2		176.4	546.9	ന
-1	8-086	955.0	424.0	530,9		S.	68.7	04.7	63.9	ึ่ง		523.7	394.8	- H
Н	981-8	438.8	650.1	788.7	4	<b>.</b>	36.3	05,3	31.0	10		075.2	119.7	~
÷	982-8	516.4	731,1	785.2	6	÷	36.4	99.7	36.7	· ~		152.3	221.9	က
Н	983-8	463.0	560.1	907.9	<b>o</b>	4	36	31,5	454,74	10.4	7.4	6104,31	4362,64	71.5
	Total	59881.62	22835,32	37046.30	80.2	49.6	14830.05	5684.41	9145,64	19 <u>.</u> 8	12,2	74711,66	46191,92	61.8
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	-	2	e	4	2	9	7	C	6	10	H	12	12	14
	9-996	535.0	416.3	18 6	6	<u></u>	52.8	7.5	7	17 4		487.8	73.	ග
	1967-63	4560,39	1739,14	2821,25	; <u>'</u>	60.1		51,17	83.01	2.9	1,3	4694.57	2904.26	61.9
	968-6	767.0	695.1	71.9	· <	4	0.40	2.0	35.1	16.0		575.0	57	_ <b>.</b>
	968-7	511,9	748.7	63.2	্ <b>্</b>		31,0	7.1	03.0	15.8		543.0	57.	<b>්</b>
	970-7	199.6	254.2	45,4	0	. <b>.</b>	05.0	2.0	53.0	10,1		004.7	90	c)
Militar	971-7	325, 2	151,4	73.7	<b>с</b> э	0	38,3	ິດ ເມ	22.0	11,7		733,5	95	<del>.</del>
44	972-7	8.28,6	162,0	66.5	0	-	23,8	9,1	34.6	9.6		552,4	51.	co
	973-7	400,2	790.1	10.0	÷	, ,!	36.2	1.1	25,0	က္ခင္ပ		306.4	35,	· W
	974-7	992.6	367.6	24.9	сэ сэ	٠ <b>.</b>	53.0	. T	11,0	11.6		550.7	36.	d
2-1	975-7	334.6	346.1	33,5	co	3	33,4	6.0	38,5	11,2		568,1	27.	0,
 €3	7-976	340.0	345.0	95.0	2	3,	30,2	3.0	57.1	5.0		6 20. 2	52	v
e e i	7-776	370,6	093.5	85.1	0	رئ	01.7	4	07.4	0,3		430,3	72.	4
	978-7	0.896	385.0	83.0	0	9	93,3	7.3	56,0	9.1		661.4	30,	5
-8	1979-3	936.0	765.6	71.2	÷	4	22.0	5.	56.7	δ, 1		458, C	37.	o
	1930-3	634.2	297.1	37,1	2	- -	31,5	0.0	41.5	7.6		265,7	50	0
4.5	1981-8	803.4	349,3	54.0	0	0,	01.7	2	50.4	0.4		505,1	13.	5
	1982-0	212,5	423.2	89, 2	0	4.	30,3	7.3	Q.0	ന് ഗ		0.20	00	0
recursive to	მ <b>-</b> წენ	634.0	464.3	19,7	93*3	.0	22.	S S	15,5	6.7		306, 1	Ω, Ω	-1
i firi	Total	111913,2	37 294,33	74619,88	90.1	60.1	12232,09	4054,77	6177,32	o. o.	6.61	124145,30	02796,20	66.7
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13	0	000	490.4	20 2. €	364	764	34.1	219, C	551.5	560.6	795.7	326.1	704.4	0.020	344.3	140.5	754.2	0.690	3365,59		36100.47
12	7 61	O . / #	ယ <b>ု</b> က	21.9	56.1	35,0	12.7	36.3	52.6	300	32.0	31.7	50.00	20.5	04.5	73.4	22.0	15.2	5342.69		63949.05
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6	7.		5,5	4.0	5.6	S.	0	0.3	5.7	್ಟ್	5.2	0.0	3,0	5.7	ر. ان	4	4.6	1.0	195,56		3200,96
co.	0	•	<del>-1</del>	.4. .0.	0.4	7	167,62	0.0	5	6.2	3.5	5,3	2.0	3,0	C	3,7	2,2	ີ. ດ	4. C		2606.67
4	C	2		3	۲.	C		Z)ı	9	<b>3</b>	С	0	Ó	7	ω,	0	CQ.	C	4		5887.63
9	33 7	, 0	45.4	37,3	41.0	43,5	41.9	39.0	52,2	50,4	47,2	52,0	56,7	50,4	64.3	59.2	55,1	56.7	59,3		51.6
5	o	•	4	· •	2	့ က	8	9	3	0	0	+	3	3		3	3	2,	94.2		91.2
4	73 //	0	S. 40	973,6	120,6	321,3	1191,34	043.7	546.2	510.2	500,5	127,1	530.5	073,2	730.4	945.6	579.6	C18, 3	170.0		32907.53
8	0.23	0	072.1	154.9	151,3	356,6	1334.10	219.7	221.7	204.0	422.7	559.7	642,7	748,6	810,8	19.1	305,5	764.4	362,2		25073.89
2	7	)	• 73	33°	000	73.		ci co	57.	14.	23.	90	73.	21.	65	5.4 5.4	02	83	m		58061.42
<b>-</b>	966.	) (	9-1.95	969-6	4-696	970-7	971	972-7	973-7	974-7	975-7	7-916	7-776	979-7	979-8	3-006	981-8	932-0	3-8		Total
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4	9-996	658 2	-	0.75	_	_'	30. 2	20.9	09.2	3.55		್ತಿ.	396.2	_	
4	967-6	241.4	07.0		• -	7	14.2	02.5	11,7	co		55.6	0.00	จ๋	
ロ	968-6	974.1	1197	776 1	·σ	'n	32.6	41.1	91.4	0		7.90	367.6	0	
· 4	7-696	442.9	7,00	111,3	0	O	83.5	54.5	29.0			26,4	240,3	'n	
寸	70-7	343.5	73,	6.60	•	47.4	210,16	101,66	108,50	ന	4.2	2553,71	1318,44		
な	971-7	682.2	511	171.1	·	Ö	00 3	13,1	87.6			33.0	258°.	e	
₹	972-7	944.5	230	713.6	, ,	່ຕ	73.0	09,5	3,5			17.5	777.I	•	
· 4	973-7	165 G	400	171 1	4	-	23.2	ر. در	9.0			C.	237.8	<b>◆</b>	
· -	974-7	500.0	000	303.2		' _'	20.7	7.7	2.9			14.0	326.2	0	
4	975-7	303.4	) () () ()	49.0	, ~	്	31,2	7.1	-			34.7	003.1	÷	
ı vj	7-976	274.2	37.5	00.00 00.00	4	_	42,5	5.2	٠ 9			16.8	955.2	0	
Ŋ	7-776	555.2	36 A	01.		\ <del>.</del>	24.3	رن س	6.7			79.5	249.5	· ·	
। प्रो	978-7	771.0	0 9 0	710.8	S	4	6.13	, 4	2,5			59,0	733.4	υ.	4
ı d	979-8	366.3	364	0000	, ,	-	1.9	5,7	5			20,2	028.2	2	
ı	0.006	329.0	514	715.5	, N	6	C	1.6	5.1			77.7	791.6	-	
Ą	981-8	928.9	260	260.6	1	-	6.7	္မ	5.5			13	297.2	<del>*</del>	
ı si	982-8	272.9	706	566.4	' _'	່ເດ	9,6	0.5	സ			42,5	599.7		
4	1983-04	3751.99	1701.40	1970,51	98.4		6,3	co	-			11.	001.6	2	
									THE STATE OF THE PARTY OF THE STATE OF THE S						
	Total .	44600.04	24921.83	19670.22	94,3	41.6	26 93, 4€	1513,28	1135,20	5,7	2.5	47298,52	20063,40	**************************************	
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	14	င	62,5	O	H	₽.	m	2	0.1	.0	6.3	3,1	0	o.	-		•		*	1	2.1	
	13	26.2.43	2200,95	543,63	521,51	747.49	203,50	023,13	718,61	15,91	129.82	005,31	595,73	075,90	710.14	791,38	950.72	133,50	324.91		7742.59 6	
	12	6 19, 08	3518,71	042,57	140,85	437,25	350,10	011,84	105,40	222, 28	030,21	387,82	439,85	917,13	317,51	575,45	300,99	203,40	000.42		6896,84 47	
	귀		13.6		0												4				6.97	
	10	4	21.8	ຕ	0	8	3	2	co	-	H	ಹ		•				(1) a			다 다 다	
	6	76.4	479.43	52,2	26,2	6.61	33.4	19,5	44.O	19,4	9.88	51,3	6.96	53.2	11,2	19,9	27.3	57.7	92.9		5280.28	
	C	9.68	287.05	51,7	05.7	33.6	55%	30.1	22.9	62.2	90.1	52,6	92,1	57.5	32.7	50.9	87.4	04.1	7.3		3331.51	
	h	0.99	766,48	14.0	32.0	13,6	38,5	79.7	6.99	71.7	78.7	14,0	0,68	20.3	74.0	78.9	74.8	51,9	20.5		3661,79	
	9	넊	48.9	0	<b></b> e	٠ ش	8	4	0	0	8	1	<			H	4	0	• 9		55.2	
	ഹ		78.2																		<b>6.</b> €0	
	4	05.9	1721,52	31,4	95,2	57.5	70.0	73.6	74.5	06.4	41,1	23.9	7.36	12,6	0.89	71.4	71.3	65.7	31.9		42462,34	
	က	167.0	1030,71	147.1	213,6	456.0	991.4	950,5	343.8	244.1	410.2	649 <u>.</u> 8	52.0	603.6	474.6	725.0	742.7	885.7	0.36.2		25772,73	
	2	53.0	2752,23	20,5	30°B	23.6	57.5	32, 1	18,4	50.5	51,4	73.5	50.7	<b>36</b>	13.4	96.5	14.1	51.4	20.1		8235,06	
	7	966-67	1967-60	69-096	069-70	970-73	971-72	972-73	973-74	974-75	975-76	976-77	977-776	978-79	979-80	900-01	981-82	932-83-	983-34		Total 6	
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φ	9-996	109,9	285.4	24.4		1 '	05.7	1.7	14.0	C	0	815	238.5	CC	
တ	1967-68	4367,23	1586,87	3250 41	05,2	57.4	843,70	275.07	560,63	14.0	10.0	5710,90	3049,04	67.4	
യ	9-396	093.7	9.069	03.0	· •	ċ	44.2	0.9	70,1	3	CC	737.	701,1	о С	
so.	2-696	163,9	675.8	ಿ ೧		c'i	83.7	€.	48.7	2		747.	336,8	6	
ഗ	970-7	932.1	259.0	73.0	•	~ ~	51.7	2,4	39,3			503	112.4		
\O_!	97.1-7	441.0	245.2	96.6		6	13.6	್ ೧	99,8		•	055.	596.4	5	
φ.	972-7	447.2	740.0	01,1	·	9	05.7	3.6	12,1			046	143,2	ě	
O	973-7	465.7	711.5	54.2	٠. ك	ೆ	32,7	9.2	13,5			<b>.</b> 369	7.763	4	
9	974-7	303.7	864.7	39.0	6	o	70.8	3,1	45.6			632.	684.6	CH	
ဖ	975-7	887.8	932. Ö	55.4	ം ന	⟨1	42.6	5,2	97,3			330.	252,8		
9	7-916	340.0	762.1	77.	٠ <b>.</b>	3	80.2	2,4	67.7			620.	765.6	7	=
ဖ	2-226	9,080	713,6	31 <b>.</b> 9	<b>₩</b>	c'i	04.0	9	00.5			365.	550,4	9	
9	978-7	0.040	645,6	24.3	٦.	<del>.</del>	55.7	3,0	72.7			325.	597.1		
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φ	8-086	566.7	684.1	32,5	- /	e m	22, 1	7.7	14.3			888	126.9	5	
9	981-3	343.1	637.4	35.6		2	95,9	0,3	25,5			539.	031,2	<b>-</b> ₩	
တ	982-8	031,5	355.9	25.5		0,	12,3	1,9	50,4			293.	075.9	o	
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12	166.1	1632,27	065.9	923.6	017.7	710.8	008.5	955.0	987.1	944.7	209,7	347.5	712,3	043.5	796.5	288.C	653.0	091.5		51554.87
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	2	10	08.9	5.1	84.2	99.	91,7	UN UN	7.4	7.7	2,6	9	2,4	8	3.4	8,7	44 6	2		1076.02
	9.0	57.9	65,1	81,3	00.2	73.2	10,9	89.6	40.8	65.0	67.7	51.9	S .	33,2	41,9	99,7	3,00	2		2811,27
9	c	S.	· •	-	2	4	0	9	ъ.	5	ນໍ	4	4	<del>,  </del>	7	9	2	72.2		62.1
5	ς'	90.3		, L	o	0	0	5	, c	4	4	ິນ	9	5	_	_	_	က		6.16
4	66.90	96.96	360.72	911.69	53.22	759.77	015.53	095.54	093,70	918.37	087.94	158.83	386,89	861.06	229.28	979.95	363,31	8,41		32020.16
m	10.5	75.3	40.1	30.6	64.2	77.7	82.1	69.8	52.6	61.3	54.1	0.36.7	198,5	049.1	425.2	208,3	155.8	1330,54		16723,44
2	077.5	474.	800.8	642.2	817.4	537,5	797.6	865.3	846.3	7.677	042.0	195.5	585.4	910.2	654.5	188.3	519.2	5008,95		48743,60
, -	9-996	9-196	963-6	7-696	7-076	971-7	972-7	973-7	974-7	975-7	7-97e	7-776	978-7	979-8	980-8	981-8	982-8	1983-84		Total
	16	16	.16	16	16	16	16	19	16	16	9T	16	16	16	16	19	16	. 16		<b>,</b>

77	5.5	64	61.3	61.	67.	55.	60.	64	64.	64.	69	70.5	19.	62.	71.	79.	30,	00 00	
13	59.9	247.0	1356.37	336,3	819,4	040.4	340.1	455.5	324.2	538.0	181,2	430,9	744.6	463.1	833,3	065,1	434.0	533,1	
12	56.2	936	213	190	710.	872.	201.	253.	990	525.	156,	445	791.	355.	955.	847.	245	10	
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7	7 5	9	321.05	4.2	1.8	0.2	4. 3	0.1	0.1	4.0	3,0	2.0	2.9	1.0	5.2	9.6	2,4	රු භ	
5 6	6 9 47	7.7 56.	85.5 52.4	7.9 53.	1,8 61.	2,2 51.	1.6 55.	4.2 60.	0.8 58.	4.3 61.	3.2 64.	5.6 67.	6.5 18.	7.0 60.	5.5 68.	7.4 77.	7.8 79.	8,6 7	
7	17.40	093.79	24	175,10	670.58	959.22.	227,88	371,52	202,51	544,65	033,41	323 770	718,51	419.01	90.707	985,79	359,23	637,35	
m	70	0.20	733.08	50.8	17,7	57,5	89.0	51,6	75.9	37.2	08.9	970,1	40.3	865.0	72,3	52.2	94,0	63.2	
7	357.7	698.8	1892,75	925,9	488,3	726.7	0.16,9	123,2	878,5	381.8	942,3	293.8	658.8	284.0	779.3	748.0	153,2	500.	
<b>∵1</b> (	9-996	9-196	1968-69	7-696	970-7	971-7	172-7	973-7	974-7	975-7	7-9/6	7-776	978-7	979-8	8-086	981-8	982-8	983-8	
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13	264.5	2034.5	093,5	591,5	538.0	9.640	332,5	247.8	338.0	784.2	392,3	972.7	075.0	978.6	854.5	0.620	812.6	429.9	34500.2
12	583.3	3310,01	872.3	712.0	815,8	5 28, 5	851.2	928.8	212,6	118,7	290,4	567.3	238,9	565.0	567.5	672.1	624.5	342.9	75903.03
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	8	3,2	4.6	1.2	9.8	5,8	7.8	5.6	6.5	8,5	9.6	2.4	9.6	6.3	6.5	9,1	0,2		2621,92
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വ	6	• \ —	2	4.	5	4	ထိ	9	9	9	9	7	[~	8	7	8	6	99.1	96.5
7	128.1	360.4	0.800	599.7	469.6	958.7	309.0	202.8	289.5	715.5	821.8	915.5	031.5	954.2	794.8	053.5	787.4	3399,75	33297.58
n	176.6	166.	639.7	911.0	176.3	396.9	474.4	620.4	806.5	244.5	308.9	519.4	9.760	554.3	656.1	559.4	787.1	2337,24	39983,53
2	304.7	0.26.7	647.7	510.8	646.0	352.6	783.4	823.2	0.960	960.1	130.8	434.9	129.2	508,6	450.9	613.0	574.6	6286.99	73281.11
	9-996	9-196	968-6	4-696	970-7	971-7	972-7	973-7	974-7	975-7	7-976	977-7	978-7	970-8	980-8	981.8	982-8	1983-84	Total
0	18	18	18	18	138	18	18	138		<del>Π</del>	18	18	Н 8	18	18	130	13	18	

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12	)16.1	2639.96	506,5	230,6	254.9	193,3	741.9	575.9	202,6	236,5	103,4	507.7	538.0	247.8	914.2	93.0	0
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6	28.9	312, 17 268, 95	74.2	94。2 24。2		21.8	36.3	20.7	05,3	69,3	20.9	95.7	39,4	34.3	85,5	95.0	
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7	662.6	1334,81 1061,36	024.3	516.5	326.1	78,7	309.2	912.3	238,7	342.0	094.9	064.0	705.0	161.4	781.3	414.9	
٣	#1.4	319.41 1044.88	31.6	0 0 0 2	7.736	00100	013,4	333,1	100,7	457.5	557.0	231,2	59.7	724.1	717.6	010,5	
2	504.0	2204.22 2106.24	0.55.9	712.4	013.9	259.7	322.6	295,5	727.5	799.5	751.9	295,2	16.1.0	005.6	498.9	425.5	
	9-996	1967-68 1968-69	<b>L-696</b>	970-7	972-7	973-7	974-7	975-7	7-976	7-17-7	978-7	3-6/6	0006	981-8	982-8	983-6	
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## WESTERN REGION

		7	<b>7</b>	9		ω	0	07.	금	27	~ -	*
1966-67	2553.8	567	3986.76	4 4 47.	762.8	334.9	127.88	1	f .	1316.7	8414.	9
1 1967-68	•	.19023,45	32309,88	81.2 51.3	11663,47	4194.20	7469.27	18.8	11.9	62996.80	39779,13	63,1
1968-69	9467.4	545	6921,73	2,9 45,	917.2	360.9	556, 29			9384.6	2477	4
1969-70	5984.6	753.	3231,01	3.5.49.	830.6	257 2	573,38			5815, 2	9804.	6
1970-71	8426.6	830.	0595,83	8.5.52.	593,4	118,6	274.78			7120.0	5870	6
1971-72	4392,8	148.	7243,93	8.0.51.	513,0	431,8	)81 <b>,</b> 14			2905,8	2325.	φ.
1972-73	2749.8	908	6841,69	9.0.52.	507,1	949°B	557,36	. 9		0257.0	1399.	8
1973-74	3285,5	349.	0935,74	2,3 53,	388,6	794.5	594,10			7674.2	3529.	<b>е</b>
1974-75	4470.5	732.	1738,45	9,2 52.	466.9	523,8	343,13			1937.4	5581.	8
1975-76	6707,4	572.	9135, 27	9.8 52.	423,4	982,9	440.45			4130,9	3575	8
1976-77	0453,2	500	0853,13	1,2 53.	486.5	524.6	961,88			5939.7	4815.	<b>с</b>
1977-78	2584.1	254.	3329,80	1,5 54.	345.4	3.26.8	018,55			3929.5	7.348.	0
1978-79	2517.2	539	6878,01	3.0 53.	827.0	274.0	553.06			8344,3	0431.	-
1979-30	7337.3	177.	3159,93	4.3 53.	3.866	574.0	319,82			1331,1	0479	9
1980-81	2562,4	725.	9837,11	4,5 61,	276.1	314.4	461,71			7838,5	3298.	4
1981-82	5391,3	414	0976.91	4.5 56.	392.4	944.4	948.02			0283,7	3924	о О
1982-83	9805,6	409	5396,52	4.6 62.	531,4	304.1	727.32			5337.0	9123.	S.
1983-84 1	9184.2	146.	2730,03	6.1 64.	358,2	383, 2	975.04			13542,4	5713.	66.7
1											•	
Total 1	249207.0	498097,60 7	751109,50	90.7 54.6	125377,90	49094 °C	76783,16	ლ ტ	2.6	1375085.0	827892.30	60.2

District-wise Production and Generation of Foodgraine
Marketable Surplus in the Central Region

BARABANKI

-------Appendix II :

•	. %	14				7.67															53.8
	TMS	13	2.0	201.8	278.2	1690,28	657.6	403.3	439.0	557.1	776.7	350.9	230.8	305.2	945.9	337.9	315.8	538.9	225.0	972.8	36736.90
	The rest of the re	12	48	73	.69	3424.38	58.	20.	55	80	9	96	43.	15,	46,	70	75.	98	73.	92.	68333.12
	%2 t	11	•	4.	O	7.	0	0	Ö	0	Ö		0								7.9
	%1	10	3	4,	5	23.3	<b>~</b>	3	2	0	9	Ö	8	2							14.7
	P.M.S	9	20.	41,	26.	393,28	60.	27.	17.	<u>-</u>	50	74.	01.	85.	77	57.	5	24.	23.	39.	5386,62
	P.R.	α	360,91			403.47															5031,28
	P. PROD.	7	S	_	_	796.75	O	W	0,	ď		Φ,	5	j	w	ď	٦.		<u>,</u>	ું ∶	10417.90
	%5	9	.0,	4.	~	37.9		<b>†</b>	o.	·-	3	0	·.'	·,	L,	·.	4.	*	<u>.</u> *.	N.	45.9
	%1	. 5	76.5			76.7															85,3
	C.M.S	7	1.	60°5	51.4	1297.01	97.1	76.2	27.1	45.5	25.7	76.3	29.0	19.7	65.2	80.4	0,79	1.4,0	01.5	35.2	31350.31
	C.R.	2	175.1	185.6	333.5	1330.62	408.9	316.7	259.6	138.1	215.2	321,4	321.8	498,2	723.7	583.7	693.8	0,440	0.990	748°4	26264.92
	_C.P.30D	2	1566,87	846.	285.	2627.63	706.	392	380.	383.	640.	197.	150.	517	389.	264.	257.	458.	167:	£89 1:	57915.23
	YEAR	<del>-</del> -	1966-67	2	8	69	7	77-	72-	73-	4	35	76/	77	78/	9	80	87	82	83	TOTAL
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Secretaries at the new superior and second con-	2	632.65 818.61 893.76 921.19 802.82 865.69 513.70 448.91 680.95 572.77 552.51 552.51 552.51	1056157	
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	5	2009 2007 2007 2007 2009 2009 2009 2009	68333,43	
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	75	394.20	2830.23 16	918.00 1	728.62 1	936.11 1	+01.65 1	901.71 1	065,10 1	053.15 1(	521,82 18	361,25 2'	94.59 22	11,46 24	118,00 12	80,58 29	59.31 28	95.67 28	15.97 33	English Sales Sales Company of the C	281/2 11 48929
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ום ה ווי	7	188.17 507.60 356.08 353.35 282.16 282.16 229.30 220.09 206.12 206.26 20
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APPE DIX-III Distric-wise Production and generation Foodgrains Marketable Surplus in the Eastern Region.

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72	316.4	210.5	592.7	17.6	299.4	7.800	548,2	633.0	708.8	377.2	624.4	163.4	223.7	5.777	130.3	809	2,640	4713.69	57872.46
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8	0.50	6.44	76.1	278.33	63.9	41.7	12.6	75.3	57.5	8.66	17.1	82.6	9.40	13.9	71.3	31.6	7,96	0,0	5493.29
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1975	5046.5	9326,9	5209.55	7.3 39.	5	407.	2	2.7 5.	63138	3393,36	
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Appendix IV:- Distric-wise Production and generation of Foodgrains Marketable surplus in the Hill Region.

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%	14																	69.7	72.8	63.7
TMS	13	3.62	0,10	1238:11	213:	62.1	507.7	687:7	349.6	52:7	15.0	77.5	7.90	9:9	31:2	50.5	42.3	35.6	1561.93	20711.00
TT.	12	14.	036:5	2060.74	012.2	141.6	300.5	459.6	011,6	264:2	389:7	570.8	324.2	737.9	110.5	705.4	596.2	8,44,8	2146,49	32528.38
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YEAR.	7	1966-67	8	ω,	596	970	971	972	226	7/26	326	976	975	978	977	8	æ	m	1983-84	TOTAL
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- -	74-	47.	02	17.7	98.3	3		3.53	4.26	1.7	0	455.16	249.13	24.7	•
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7.2	1983-84	412,28	198.45	213.83	99.2	51.5	3.27.	v.	2.	8.0	• •	15.5	15.5	8	
[2	TOTAL	7057.01	5153.66	1905.35	98. 24.	26.5 1	117,64	82,49	35.15	1.8	0.5	7174.65	1938.49	27.0	
				CONTRACTOR CONSTITUTION CONTRACTOR CONTRACTO		to a state part for the form of the state of	Action systems assessed assessment and the	CONTRACTOR OF THE PROPERTY OF			Tringer population and the second				

Appendix V:-Distric-wise Froduction and generation of Foodgrains Marketable surplus in the Bundel Khand Region.

BANDA

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%	7/																		60.2	57.2
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9%2	P 1		3	4	2	22.7	~	~	-	m	0	N	å	~	*	•		•	·	21.7
%1	~					37.6				- 2		-		-	•				-	37.9
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P.R.	Μ	4	S	Ö	<u>_</u>	659.53	റ്	m	αi	LQ.	ر. ا	_	0	m	N.	N.	0	<b>~</b> €	in	11883.08
P.PROD.	U	č.	3.7	3.7	733.1	1660,42	912.1	138.8	155.4	7.486	<b>す</b> で	454.6	7.2	ထိ	0.2	802.5	478.2	0,0	7.570	27606,421
%5	0	ည ထိ	35.9	38.1	34.5	37.6	53.1	35.9	39.8	29.9	28,4	32.3	41.8	36.4	<b>+.</b> /-	47.5	30.9	36.7	39.7	35.5
7%	1.1		•			62.4	5 🗯											•		62.1
C.M.S.		79.0	32.1	+2.5	99.1	1658.10	36.3	76.2	97.0	50.5	30.2	13.4	17.7	9.90	39.1	30.8	30.8	36.9	54.9	25733.82
C.R.	۲,	ં		~	m	1092,58		Ô	ຕໍ	-1	~	878	'n.	234	832	210	614.	n	009	19140,86
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12	1918.81 3525.90 3082.96 3633.97 3771.80 3771.80 2890.62 2395.88 2930.65 3731.39 1670.10 4232.21 4542.44 4385.08	62895,06 3
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2	21455.11 2135.98 2235.98 2235.96 1470.40 2278.11 2079.40 2079.40 2079.40 2079.40 2079.68 2078.70 2079.68	36894.98
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12	2378.00 3335.99 3559.15 3525.84 3941.97 3151.27 1297.12 2466.57 2340.45 2408.15 3163.33 2944.75	50245.70
11	12221122212222222222222222222222222222	17.6
10	27.00.00.00.00.00.00.00.00.00.00.00.00.00	27.8
6	309.57 542.52 542.52 642.07 562.43 575.44 575.24 726.06 726.06 772.75 772.75 772.75 772.75 772.75 772.75 772.75 772.75	8829.54
8	260.38 324.437 441.60 314.37 411.60 314.37 255.43 267.20 263.21 267.20 324.66 324.66 259.08	5031 .41
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56 3 14 28 0.00 0.00 0.00 0.00 0.00 0.00 777 775.78 779.27 766.49 1038.43 1098:57 7138.76 12 0.00 0.00 0.00 0.00 0.00 1433.49 1441.85 1285.06 1657.36 1657.36 45383.33 2 2 5 ώ 14.2 0 1010.37 9 00.499  $\infty$ 1674.37 ~ 1 50.0 9 85.8 5 6128,40 4 4098,47 10226,87 N 1968 - 69 1970 - 71 1973 - 72 1974 - 73 1974 - 73 1974 - 73 1979 - 80 1981 - 82 1987 - 83 1987 - 84 TOTAL

Appendix VI:- Preduction and generation of goodgrains Marketable surplus in Utter Fradesh.

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14	\$
13	52066.75 93026.27 79057.71 90106.06 101347.40 90511.08 92535.27 82395.80 88087.38 104012.00 103717.00 157982.90 182973.10
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7	7000000000000000000000000000000000000
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6	8714 89 16233 74 16233 74 17810 76 15038 81 17904 17 9813 78 14132 87 1452 21 14517 79 12022 77 14920 37
ω	11340 18 13683 94 16038 19 15430 20 14576 77 13162 27 8698 65 10127 12 1889 76 8960 71 10100 09 9899 25 8977 13
	20055.08 31858.71 32271.93 33240.96 30615.58 28929.50 28929.50 28929.50 25699.71 24644.91 15160.30 24644.91 24679.34 24819.62 24819.62
9	74777777777777777777777777777777777777
٦. 	00000000000000000000000000000000000000
•	45251.92 74851.60 62824.02 72295.34 85308.71 75734.21 72582.09 7623.85 89479.30 94.248.34 17620.50 96446.49 17859.90 17620.50
М.	55462.67 60027.13 60027.13 64119.13 67291.21 77443.74 72288.87 70591.63 64276.73 75674.09 77946.67 79971.87 88808.30 76002.49 85684.79 101995.60
 ⊲	98814.59 126943.10 129586.50 147673.60 1476573.60 177517.40 177995.00 172448.90 226456.80 224665.20 253097.801 253097.801
₹	1966-67 1968-69 1968-69 1970-71 1972-77 1972-77 1978-79 1978-80 1986-81 1981-82 1982-83
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Total 3001309,793127903,01378268,00 82,0147,6457684,94457684,70205803,70 13,0 13,233585588,7 291343,10 59,6-

#### 61 2185550 8577.45 8646.84 8640.84 8723.46 7900.00 5951.96 8773.60 10245.01 153402.50 3 7036.84 12736.32 12998.57 14766.91 14220.63 16659.61 12055.65 13551.47 15577.19 17022.08 17713.86 18299.92 250244.20 S 2 =22 S 2 36 1067 30551 31657 31677 3 . 18 55558 9 1411 49 1865 33 1865 33 2054 67 2128 57 1263 11 1461 55 1765 72 1858 31 1858 31 1858 31 2533 64 22 35061. $\dot{\omega}$ 2478.50 4970.85 5440.44 5440.44 5198.98 6456.66 33571.97 6646.40 6646.40 678.67 040 90619, ~ ៍ H 9 39 口 $\omega$ Z 5 63 m 2118 5486 4978 7275 7275 7275 7275 7277 97844,47 4 283399 2813999 2813999 2813999 281399 281399 28139 281 780,34 ত 4558 34 8819 474 8751 83 8558 13 8559 84 8559 84 8605 95 6095 18 6095 18 6095 18 11241 68 11323 42 1363 12 159624,80 N 1966-67 1968-69 1968-69 1970-71 1977-75 1977-75 1981-82 1982-83 TOTAL **UNUNUNUNUNUNUNUNUNUNUN** LO

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APPENDIX VII

LAND HOLDINGWISE PRODUCTION AND GENERATION OF FOODGRAINS MARKETABLE SURFLUS IN THE

## WESTERN REGION

	8	PP	CMS	PMS	G.	TMS	CIMIS	PMS TP	CIMS	PMS	TP
SAHARANPUR	NPUR:		*								
5	N)	979.0	100523.4		4511.				9	0.73	75.28
ر ج	99626.	2621.0	5222	1998.5	202247.0	154224.3	75.27	0.99	98.70	1.30	
1 3	59246.	845.	54125.	965.	3091.	.060			o,		
1 4	10580.	0936.	90550.	377.	1516.	327.			~		
ر ح	72533	919.	34026.	301.	4452.	327.			m		
. r	12031.	5438.	72605.	212.	7469.	317.			n		
7 7	5253.				2418.	535.			m		
. L	55402.	653.	89263	629	8055.	393.			m		
6	84584.	522.	47206,	455.	0106.	561.			m		
1 10	05432.	354.	16812.	926.	9496	738.			m*		
7	26775	04.	48.		7579.	502.			Ġ		
1.12	7371.		27.		.0	343.	<del></del>	Sec. 23	0		
1 13	074.		12.		_ <b>;</b>			-	0		
† (*)	7542.0	280.0			di.				95.87		
TOTAL	5450981.0	116531.0	2793965.0	61286.9	5567512.0	2855252.0	50.18	1.10	97.85	2.15	51.28
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	6262.	4639.0	04039.	559.	400901.0		-				*.	
	2332.	181.	2508.	053.	1513.	9562.			2)			
	2795.	766.	2081.	781.	1561.	7863.			-			
	8728	535.	6925.	293.	3263.	3218.			5			
	8261.	06.	9966	0	5867.	4984.		🕶	L.J.			5
	2146.	828	0528.	485.	1974.	7013.			7			8
	4868	250.	5741.	465.	0118.	9207.			11			
_	3623.	713.	4255.	1112	3336.	7367.		•	L VI I		<del></del> -	
Υ.	0518.	47.	4886.	-	1165.	5313.					~	
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•	467.	•	4587.9		528	528	76.09	-			$\nabla$	
							And the contract of the contra	-	t dine see and a see a title see a title	maculation of the A		
TOTAL	48,43200.0	62399.0	3219225.0	42887.0	4905599.0	3262112.0	65,62	0.87	69*86	1.31	66.50	
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2	•	129173.2 357375.9 885388.0 374172.7 1231255.0 622655.6 653575.8 217368.4 226948.2 19020.6 6781.1 6781.1	•
2		2783.0 8508.0 21683.0 43611.0 36118.0 29756.0 28756.0 12407.0 10030.0 1696.0 203.0 203.0	1700
<b>\sum_</b>	ANDSHAHAR:	163254.0 451721.0 1121414.0 478276.0 1713982.0 1153585.0 866755.0 911315.0 440856.0 26358.0 26358.0 26358.0 26358.0 8861.0	•
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7		78.56				100										48.81
9		0	36078.	49253.	92739.	90734.	68470.	4982.	32243.	2940.	1920.	2407.	05.	000		1932509.0
		127164.0	5830.	7588.	2061.	3259.	4320.	94.	8664.	4984*	2821,	6304.	6350.	2325.	27.	3857291.0
7		586.	12.	.690	026.	362.	.866	1797.9	74.	.66	39.	90	6			49701.1
3		.90666	32966.	42184.	65713.	87371.	66472.	113184.4	30369.	2041.	1081.	2300.	578.	300.	12840.5	1882808.0
2		987.	900	857.	3862.	505.	0397.	0.6456	750.	675.	365.	56.	37.	0	0.6	105349.0
	ABAD:	25177.	91930	28731.	58199	35754.	83923.	()	78914.	80309.	456.	748	123.	325.	37318.0	3751942.0
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	7		08917.	272568.0	75252	DORAGE.	· 10001	270205.	08759.	169531	スプレック	・ハン・・	11266.	21227.	0	~	•	•	•	8265781.0	
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Θ		2		7.	5	7	3	9	S	3	3	$\sim$		0	2.25	4.02
		6.2	5.7	5.0	4.9	0	7:1	6.5	6.3	7.2	7.1	5.2	7.5	9.6	69.36	69.36
9		779.	621.	527.	473.	263.	438.	601	145.	214.	858.	578.	582.	103.	2699.9	3542887.0
5		5580	00394	15497	15618	37496	670434.0	87754.	00561	62244,	58402	2399	504,	334.	770.	4828087.0
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2		4742.	5451.	36726.	11351.	77969.	450268.6	91331.	31006.	43618.	73538.	4622.	436.	018.	615.	3348694.0
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## APPENDIX VIII

LANDHOLDINGWISE PRODUCTION AND GENERATION OF FOODGRAINS MARKETABLE SURPLUS IN THE BUNDELKHAND REGION

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Land Holding-wise Production and Generation of Foodgrains Marketable Surplus in the Eastern Region Appendix IX:

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3		4014127 5726982 11854520 12882133 1137409 1400119 643611 606051 606051 75482 75482 75482	39806300.6
2		562898.0 848848.0 1204356.0 1515260.0 1008348.0 699080.0 479111.0 561375.0 235932.0 235932.0 235932.0 235442.0 11800.0 8405.0	7499905.0
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APPENDIX - X

LAND HOLDINGWISE PRODUCTION AND GENERATION OF FUODGRAINS MARKETABLE SURPLUS IN THE CENTRAL REGION

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CMS TP	60.92 60.92 60.83	56.55
TMS	109346.3 248496.3 546520.0 723933.6 333552.8 127818.7 125329.7 65887.8 44951.6 4209.4 508.3	2530449.0
TP 5	160648.0 364222.0 800634.0 1060136.0 595215.0 228081.0 241637.0 113998.0 80164.0 7502.0 1719.0 2310.0	3995811.0
PMS 4	1,1478.6 19310.9 52567.7 79269.2 42583.8 20343.9 16440.4 14283.1 674.0 0.0 269.8	270836.5
civis 3	97867.7 229185.4 493952.4 644664.4 290959.1 111378.3 121046.7 56406.7 5535.4 961.2 508.3	2259612.0
PP 2	16864.0 28304.0 77010.0 116163.0 74533.0 35616.0 25002.0 1179.0 1179.0 472.0	427740.0
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5		245692.0 425541.0 852446.0 1213220.0 1067898.0 400776.0 254810.0 254810.0 263705.0 11817.0 6511.0 5327.0	4931108.0
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3		145132.3 228983.4 479162.4 708816.2 502217.6 200156.2 102994.0 128822.8 39159.7 5235.9 3934.2	2585745:0
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5		277096.0 566304.0 1380358.0 1550884.0 1183368.0 720334.0 459501.0 555895.0 149537.0 1865.0	7119706.0
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3		183327.5 379764.6 818097.3 1006820.0 558389.8 326762.2 191051.7 253074.0 93559.5 64384.0 6776.3 2085.9	3896352.0
2		37342.0 70950.0 313887.0 238629.0 160211.0 121720.0 109584.0 92349.0 61183.0 3088.0 1005.0 934.0	1242479.0
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APPENDIX - XI

LAND HOLDINGWISE PRODUCTION AND GENERATION OF FOODGRAINS MARKETABLE SURPLUS

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9	39595.1 67368.8 184189.2 280807.3 91698.7 44107.5 12581.5 10826.0 2162.5 870.7 177.1 0.0
<b>S</b>	64923.0 110664.0 301490.0 459200.0 219707.0 106554.0 29861.0 29861.0 29861.0 29867.0 419.0 0.0
4	165.4 162.7 162.7 1690.3 1696.
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_	72.17 72.42 72.42 72.42 72.42 69.99 70.02 70.02 70.08 70.08	71.19	
10	2.94 2.94 2.07 2.07 2.73 2.75 3.76 3.76 3.76	2.32	
6	97.06 96.59 97.92 97.93 97.53 97.22 97.22 99.63 99.63	97.68	
8	00-01-1-1-00 00-01-01-01-01-01-01-01-01-01-01-01-01-0	1.65	
	70.05 69.95 71.13 68.77 68.24 68.34 69.82 67.50	69.54	
9	31571.8 52996.4 86379.9 137441.2 104384.6 69852.2 49585.2 53142.0 230518.5 13872.0 2303.5 1352.4 888.6	631055.2	
5	43744.0 73183.0 119330.0 189236.0 149171.0 9835.0 75900.0 75900.0 75900.0 19788.0 1928.0 1928.0 1929.0	886430.0	
7	927-9 1806-9 1799-3 2846-7 1803-1 1726-5 1477-4 256-5 256-5 254-3	14647.9	
N	30643.9 51189.5 84580.6 134594.6 102581.5 68125.8 48418.3 51664.6 13615.5 13615.5 13615.5 6512.8	616407.4	
7	1295.0 2485.0 2474.0 3911.0 2517.0 1629.0 757.0 757.0 40.0	20310.0	
~	42449.0 70698.0 116856.0 185325.0 146654.0 97425.0 69217.0 73837.0 19430.0 1264.0	866120.0	
	DEHRADU 0.00000000000000000000000000000000000	TOTAL	

APPENDIX - XII

LAND HOLDING PRODUCTION AND GENERATION OF FOODGRAINS MARKETABLE SURPLUS IN UTTAR PRADESH

	7.1.03 22.23 22.23 22.23 20.23 20.23 20.23 20.23 20.23 20.23 20.23 20.23	61.68	
PMS TMS	200000011470000 20000011470000 200000000000000000000000000000000	9.69.6	
CIMIS	90 90 91 34 90 90 90 90 90 90 90 90 90 90 90 90 90	90.31	
PMS TP	7.52 7.52 7.52 7.52 7.52 7.52 8.52 8.52 8.52 8.52 8.52 8.52 8.52 8.52 8.52 8.53	5.98	
CMS	64.54 655.54 665.53 665.53 677.45 677.45 677.45 677.75 67.76 77.88 77.88 77.88	55.70	
SML	8033706.0 13558880.0 26433740.0 38927360.0 14417420.0 14417420.0 9530176.0 11406520.0 5358385.0 4602530.0 735333.2 306341.2 121684.5 495462.1	152866468.0	
ŢP	11360510.0 18986360.0 36801940.0 53944520.0 37574140.0 18074660.0 21643140.0 10074050.0 1462713.0 610127.0 243103.0 869247.0	247836100.0	
PMS	739837.5 1174794.0 2132060.0 3366466.0 1861373.0 1424296.0 1015000.0 763568.0 763568.0 763568.0 763568.0 763568.0 763568.0 763568.0 763568.0	14812040.0	
CMS	7293869.0 12384090.0 24301680.0 35560890.0 17077560.0 12993120.0 8515176.0 4594816.0 5961147.0 596150.2 254880.4 106679.8		
PP	1044217.0 1650810.0 2971455.0 4647880.0 3588677.0 2691295.0 1903980.0 2488023.0 1263368.0 262213.0 97545.0 32133.0	24146940.0	
αP	10256290.0 17335550.0 33830490.0 49296640.0 33985460.0 24858810.0 16170680.0 19155110.0 8675362.0 7438194.0 1200500.0 210970.0	223689100.0 24146940.0 138054400.p	
	88 88 88 88 88 88 88 88 88 88 88 88 88	TOTAL	

<u>\</u>	67.18 67.75 68.46 69.37 72.33 77.33 77.33 77.33 77.34 78.35 79.28 77.44 78.35 80.01
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6	97.53 98.33 98.33 98.53 98.53 98.59 98.59 98.59 98.53 98.53
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7	65.19 66.62 67.65 67.92 67.92 67.32 66.837 77.20 77.20 77.20 77.33 66.37 76.37 78.39
9	252523.6 688161.7 1459657.0 2019699.0 1368432.0 972017.9 731560.3 735973.1 425280.9 40448.4 24442.6 141839.7
2	524707.0 2132070.0 2132070.0 2941443.0 1988789.0 1343783.0 975465.0 975465.0 542813.0 510659.0 51750.0 51750.0 51770.0
7	10479.7 11506.0 17299.2 29659.8 17565.7 10281.7 12647.1 6252.5 11012.4 2990.6 277.6 2874.4
2	342044.0 676655.8 1442358.0 1990039.0 1350867.0 961092.1 721278.7 723326.1 419028.4 393833.4 59579.5 59579.5 37457.8
,	15358.0 24815.0 24815.0 41958.0 24001.0 13627.0 16017.0 12672.0 12672.0 12672.0 12672.0
-	509349.0 998900.0 2107255.0 2869485.0 1328126.0 1328126.0 962235.0 960808.0 534892.0 47459.0 173628.0
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Appendix XIII :- Land Holding wise distribution of Foodgrains Marketable surplus in the Western Region.

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	6	7.06 7.74 7.01 5.27 5.27 5.24	080080 040084 110081	4-74 6-75 7-75 7-75 7-75 7-75 7-75 7-75 7-75
	Φ	13.86 10.86 10.35 10.35	13.747 13.449 15.15 15.12 12.44 12.44	11.30 11.30 12.57 12.59 8.37
	_	10 . 15 . 15 . 15 . 20 . 20 . 20 . 20 . 20 . 20 . 20 . 2	10.08 12.19 10.11 11.71 19.35	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
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The state of the s	<del>,</del>	18.54 17.97 18.53 28.29 26.72 28.26	17.6.1 14.71 17.77 20.58 20.53	21.77 20.97 21.75 29.89 28.87 29.86
	2	8 2 4 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4	989878	11.11 7.76 11.04 15.26 10.69
	2	777777 777777 70922 70922	4 4 7 4 7 4 7 5 6 7 4 7 5 6 7 4 6 7 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	55.32 77.27 7.23 7.23
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	111111111111111111111111111111111111111	888877 50077 50077	14.41 10.97 14.15 10.09 13.17	11.99 12.34 12.34 15.07 15.07
9	15.05 12.40 15.00 12.90 14.58	12.90 9.87 12.82 8.84 4.02	177. 177. 177. 176. 176. 176. 176. 176.	277777 278777 208407 2007
5	22.36 16.26 22.18 21.75 15.65	22.28 16.62 15.28 15.26 15.04	11.068 17.377 10.00 14.00 14.00	7.7777777777777777777777777777777777777
	6.24 19.63 6.62 6.61 20.96 7.01	722 722 722 724 742 76 742 76 76 76 76 76	17.64 22.79 18.04 20.41 26.57 20.88	17.05 16.89 18.26 15.00 18.08
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9	12.92 13.82 11.42 17.22 12.36	17.05 7.75 7.44 7.93	11.41 10.10 10.15 10.53 10.54	12.21 10.15 10.63 8.64 10.50
6	17.31 18.41 17.48 15.30 16.96	13.37 14.03 13.41 10.77 10.87	20.13 17.06 17.90 17.52 17.54	17.74 16.98 17.69 15.42 15.36
4	19 19 19 24 24 24 31 31 31 31 31 31 31 31 31 31 31 31 31	229.00 23	222 222 222 232 232 233 233 233 233 233	25.11 24.33 25.18 26.64 27.91 26.72
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Appendix XV: Land-holding-wise Distribution of Foodgrains Marketable Surplus in the Eastern Region

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12	0.45 0.46 0.25 0.30 0.25 4.11 2.72 3.91 3.23 0.08 0.08 0.08 0.05 0.05
17	2.89 1.83 1.60 1.04 1.04 1.54 5.08 7.80 6.97 6.97 0.97 0.99
10	2.79 1.95 1.95 1.54 1.11 1.50 7.93 7.93 7.93 7.21 1.31 1.31 1.33 0.80 0.80
6	6.95 5.34 6.79 3.83 3.03 3.75 9.85 8.44 5.76 8.06 8.06 3.93 2.36
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7	9.82 10.05 7.46 9.57 7.69	8 43 16 50 9 66 5 03 13 52 6 33	6.19 6.33 6.34 2.24 2.02	6 .82 6 .82 6 .843 7 .92 7 .93 7 .93 6 .83 5 .27
9	13.67 12.14 13.50 10.39 9.69	12.68 31.72 15.60 7.57 25.99 10.39	12.50 13.66 12.54 4.53 4.18	12.43 13.07 12.45 6.49 6.49 12.97 14.19 13.77 10.18 9.16
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4	16.96 14.46 16.69 20.33 17.33	16.10 10.47 15.24 21.21 13.79 20.07	21.76 18.92 21.65 28.47 39.87 28.75	21.67 21.67 21.30 21.30 21.30 22.04 22.04 22.46
3	11.46 8.96 11.19 13.68 10.69	10.34 6.40 9.74 13.62 8.42 12.83	12.70 13.19 12.72 16.61 27.78 16.89	12.25 16.10 12.37 16.97 22.31 17.13 11.88 10.74 11.01 112.91 13.22
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6	5.83 7.61 5.97 2.98 4.22 3.08	7.77 9.09 8.10 4.82 6.38	4.54 6.34 2.90 4.69 4.47 3.03	5.74 6.04 5.77 4.20 4.05
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7	7.62 7.80 7.63 3.88 4.16 3.90	8.61 9.28 8.77 5.33 6.51	8.05 8.49 8.08 5.21 6.06	7.48 7.09 7.45 5.33 4.97 5.30
9	12.97 10.76 12.81 6.61 5.65	13.62 12.75 13.40 8.92 8.92	11.42 10.61 11.35 7.43 7.61	13.87 13.84 13.84 9.80 9.43
5	24.39 21.78 24.19 31.04 27.75	22.50 21.02 22.14 29.47 27.51	27.58 19.65 26.92 32.15 22.92 31.38	26.05 21.82 25.69 30.60 25.62 30.19
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က	11.88 11.82 11.82 11.88 15.13	10.09 9.03 9.83 113.19 111.80	12.74 13.62 12.81 14.84 15.87	10.70 9.94 10.64 12.67 111.77
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Apperdix XVI: Land Holding wise distribution of Foodgrains Marketable surplus in the Gentral Region

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Appendix XVII: Land Holding wise distribution of codgrains Marketable surplus in the Hill Region.

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Appendix XVIII : Land Holding wise distribution of Foodgrains Marketable surplus in the Utter Pracesh.

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APPENDIX: XIX Distic-wise growth estimates of Froduction and Marketable Surplus Foodgrains in the Western Region.

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US	R2			0.224		0.246 0.158 0.257		0.846 0.007 0.810	_	0.764	
MARKET SURPLUS	E	10	2	2.351		2.283 1.723 2.351		9.369 0.325 8.248	ſ	2.550 7.203 2.912	
MAF	%GR	6	0	-3.961 2.960		11.721* 5.334 9.667*		7.379* 0.467 6.673*	1	* * * 9990 0000 1.70	
	CONST.	8	r	7.705		. 7.095 5.551 7.449		6.927 5.307 7.100		7.148 5.328 7.268	
		7		5.822 6.898		7.178 0.002 0.089		63.595 0.905 46.267		18.323 64.708 12.132	
	R2	9		0.234		0.310 0.001 0.362		0.799 0.054 0.743		0.534 0.802 0.431	
×	Er			4.799 2.413 2.626		2.679 0.147 3.015		7.975 0.951 6.802		4.281 8.044 3.483	
PROLUCTION	%uR	1 7		4.480* -4.302 2.622*		6.706* 0.336 4.688*		5.593* -1.309 4.889*		3.127* 8.056* 2.526*	
	CONST.	3	1	7.048 7.012 8.049		7.925 6.405 8.301		7.495 5.875 7.668		7.493 5.673 7.614	
	ON	2	₹ 1	CEREALS PULSES TOTAL	G A R	CEREALS PULSES TOTAL	N T H T &	CEREALS PULSES TOTAL	INAUR	CEREALS PULSES TOTAL	
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	12	23,572 1,323 16,845		18.698 80.700 12.147		25.831 2.564 13.780		17.306 16.326 6.505		9.688 1.359 7.513				
		0.596 0.076 0.513		0.539 0.835 0.432		0.618 0.138 0.463		0.520 0.505 0.289		0.377				
	10	4.855 1.150 4.104		4.324 8.983 3.485		5.082 1.601 3.712		4.160 4.041 2.551		3.113				
	6	5.695* -1.813 4.786*		4.148* -8.850* 3.239*		3.332* -2.072 2.439*		3.910* -13.673* 2.442		2.909* -1.423* 2.478*				
	8	7.257 5.07 7.474		.7.987 6.488 8.151		7.567 6.301 7.813		7.419 6.995 7.724		7.331 5.522 7.479				
	2	37.762 4.132 25.302		20.052 106.480 12.205		30.871 3.778 15.803		23.302 18.961 8.351		12.505 2.546 9.496				
4	9	0.702 0.205 0.613		0.556 0.869 0.433		0.659 0.191 0.497		0.593 0.542 0.343		0.439 0.137 0.372				
6 A	5	6.145 2.033 5.030					4.478 10.316 3.494		5.556 1.944 3.975		4.827 4.354 2.890		3.536 1.596 3.082	
	4	4.84.7* -2.659 3.939*					3.721* -9.288* 2.812*		3.019* -2.383 2.127*		3.562* -14.027* 2.094*		2.580* -1.750 2.150*	
	M	7.734 6.384 7.951	HAHARR	8.288 6.790 8.452		7.923 6.657 8.174		7.776 7.342 8.072	4 8 0 0	7.764 5.954 7.912				
	2	A D A U N CEREALS PULSES TOTAL	OLAND SID	CEREALS PULSES TOTAL	TAT	CEREALS PULSES TOTAL	H V M	CERRALS PULSES TOTAL	URRAKHA	CEREALS PULSES TOTAL				
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	0.576 0.467 0.412	0.522 0.730 0.288	0.024 0.876 0.007	0.723 0.480 0.690	0.704 0.241 0.643
1.0	,	4.180 6.573 2.541	0.626 10.609 0.327	32.05.0 5.05.0 5.72.0 5.72.0	6.165 2.253 5.354
Φ,	4.471* -5.248* 3.000*	2.579* 2.974* 2.168*	0.653 -15.908*	7.254* -7.103 6.564*	6.501* -6.513 5.774*
.ω.	7.483 6.202 7.707	7.625 6.620 7.896	8.021 6.597 8.183	7,402 4.919 7.479	7.390 5.432 7.516
7	26.989 21.562 12.470	18.776 47.397 6.485	0.133 150.494 0.672	14.238 7.474 11.951	41.633 7.525 30.158
9.	0.628 0.574 0.438	0.340 0.748 0.288	. 0 . 0 . 0 . 0 . 0 . 0 . 0	0.704 0.555 0.666	0.722 0.320 0.653
, 5	5.195 4.664 3.531	4.333 6.885 2.547	0.365 12.268 0.820	3.773 2.734 3.457	6.452 2.743 5.492
7	3.527* -5.793* 2.456*	0.419 8.130* 2.008*	0.307* -16.290* -0.686	6.282* -8.022* 5.567*	-7.385* -7.616* 4.660*
3	7.849 6.568 8.073	7.884 6.880 8.156		7.710 7.788 7.788	7.897 7.897 5.938 8.023
2	INFURI CEREALS PULSES TOTAL	THUBA CEREALS PULSES TOTAL	E.R. U. I. CEREALS PULSES TOTAL	A Z I A B A CEREALS PULSES TOTAL	CEREALS PULSES TOTAL
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10, 11	4.531 0.5 8.498 0.8 3.714 0.4	12.225 1.098 10.973 0.8
6	3.447* 9 -12.293* 2.585*	9.542* -1.754 8.883*
7	576 7.516 538 5.449 257 7.612	904 6.587 557 4.848 597 6.719
2	0.713 39.6 0.834 80.5 0.638 28.2	0.914 169.9 0.214 4.3 0.893 133.6
5	6.299 8.974 5.316	13.035 0 2.087 0 11.563 0
7	7.779* -11.993* 3.190*	8 . zd4* -3.022 7.023*
3	A R N A G A 7.768 5.703 7.864	I I 7.017 5.281 7.149
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APPENDIX XX

District-wise growth estimate of Production and Marketable Surplus of Foodgrains in the Central Region.

	F 27	40,225 8,558 22,906	16.977 0.202 9.586	23.264 5.996 13.072	26.383 1.775 18.360	48.138 0.681 37.830
	R2	0.715 0.348 0.589	0.015	0.592 0.273 0.450	0.622 0.100 0.534	0.751
SURPLU <b>S</b>	П П	6.342 2.925 4.786	4.120 0.449 3.096	4.823 2.449 3.616	5.136 1.332 4.285	6.938 0.825 6.151
MARKET SI	%GR 9	6.654* -4.895* 5.011*	5.372* 0.721 4.341*	5.050* -3.683 3.849*	.5.590* 1.925 4.785*	6.425* -1.214 5.732*
	CONST.	6.944 6.282 7.276	6.848 6.337 7.308	7.308 6.247 7.577	7.477 6.547 7.805	6.951 5.490 7.132
	E L	63.156 22.003 32.769	23,652 0,000 12,165	33.461 13.755 16.033	28.693 0.734 18.971	77.070 2.946 58.876
	R2	0.798 0.579 0.672	0.596 0.000 0.432	0.677 0.462 0.501	0.642 0.044 0.542	0.828 0.156 0.786
ION	П.	7.947 4.691 5.724	4.863 0.005 3.488	5.785 3.709 4.004	5.357 0.857 4.356	8.779 1.717 7.673
PRODUCTION	%G3 4	5.208* -6.243* 3.654*	540.08 -0.006* -0.013*	4.153* 4.586* 2.953*	4.755* 1.069 3.932*	5.485* -2.147 4.795*
	CONST.	7.536 6.874 7.869	7.280 6.769 7.740	7,812 6,751 8,081	7.863 6.934 8.192	7.496 6.033 7.677
	NO 2	BARABANKI 20 CEREALS 20 PULSES 20 TOTAL FATEHPUR	CEREALS PULSES TOTAL	CEREALS PULSES TOTAL	CEREALS FULSES FOTAL	CEREALS PULSES TOTAL
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ESTER BY REGION  CERREALS 10.687 4.450* 8.151 0.806 66.446 10.319 4.991* 7.504 0.779  PULSES 9.269 -4.880* 5.753 0.674 53.101 8.888 -4.454* 4.481 0.557  TOTAL 10.879 3.528* 6.336 0.715 40.140 10.507 4.101* 5.959 0.689	7	. 2	7	<b>C</b>	9	2	8	6	0		7.
CEREALS 10.687 4.450* 8.151 0.806 66.446 10.319 4.991* 7.594 0.779.  PULSES 9.269 -4.880* 5.753 0.674 0.557 8.888 -4.454* 4.481 0.557 0.557 101AL 10.879 3.528* 6.336 0.715 40.140 10.507 4.101* 5.959 0.689	图 日 日 日 日	) 원] (건)	1								
		10.687 9.269 10.879	4.430* -4.880* 3.528*		806 674 715	66,446 33,101 40,140	10.319 8.888 10.507	4.991* -4.454* 4.101*	7.504 4.481 5.959	0.779 · 0.557 0.689	56.317 20.078 35.504

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	0.115	0.002	0.148	0.091	0.026
	0.430	0.311	0.141	0.441	0.532
	269	395	292	.47	559
	443	181	270	.67	569
	477	590	223	.53	66
10	3-14	000 ∞±0	. 4-1	4-W	v04
6	4.605*	8.319*	-3.403*	4.130*	6.329
	-2.017	0.297	-2.387	-2.256	6.838
	3.672*	7.438*	2.452	3.393*	5.255*
8	6.319	6.902	7.149	7.223	9.221
	5.199	5.854	5.939	5.854	8.243
	6.579	7.161	7.397	7.433	9.510
	23.137 5.902 14.254	7.325 0.742 6.146	17.337 4.622 9.455	39,627 3,644 20,805	30.980 3.292 21.168
9	0.591	0.314	0.520	0.712	0.659
	6.269	0.044	0.224	0.186	0.171
	0.471	0.278	0.371	0.565	0.570
<u>ب</u>	4.810	2.706	4.164	6.295	5.566
	2.429	0.861	2.150	1.909	1.814
	3.775	2.479	3.075	4.561	4.601
4	3.723* -2.882 2.792*	6 <del>-</del> 814* -1.024 5.933	3.695* -3.107. 2.745*	2.578* 2.835 2.835 2.819*	5.257* -1.812 4.194*
2	6.871	7.420	7.686	7.686	9.726
	-5.749	6.372	6.476	6.317	8.731
	7.131	7.679	7.934	7.895	10.012
5	LUCKNOW 25 CEREALS 25 PULSES 25 TOTAL	CEREÁLS PULSES TOTAL	CEREALS FULSES TOTAL	28 CEREALS 28 PULSES 28 TOTAL CENTRAL REGION	CEREALS PUBSES TOTAL
÷ .	1.UCG 2.5 2.5 2.5 RAII	26 CE 25 PU 26 TO SITAPMR	27 27 UNINA	28 28 28 28 CENT	000

APPENDIX XXI

Growth estimates of Production and Marketable surplus Foodgrains in the Eastern Region.

	. Ne CONST	, 2	ALLAHABAD	30 CEREALS 7.6.16 30 PULSES 7.016 30 TOTAL 8.028	<u>AZ.AMGARH</u>	31 CCEREALS 7.73 31 PULSES 6.61 31 TOTAL 7.99	BAHRAICH	52 CEREALS 7.937 52 PULSES 5.754 52 TOTAL 8.048	BATILA	33 CERRALS 7.151 35 PULSES 6.618 33 TOTAL 7.488	<u>BASTI</u> .	34 CEREALS 8.334 34 PULSES 6.534 34 TOTAL 8.478
Ā	ST.					හිකිදී						
PRODUCTION	%GR	. 1		7.927* 1.431 6.596*		- 500 t* - 700 t* - 700 t*		2.557* 0.741 2.367*		4.564* -0.047 3.614*		2,805* 2,983* 2,355*
	<b>L</b>	5		4,257 1,408 3,994		7.252 4.013 6.023		3.057 0.519 2.831		7.561 0.050 6.052		3,826 2,783 2,902
	R2	9		0.531 0.110 0.499		0.767 0.502 0.694		0.384 0.018 0.348	o o	0.781 0.090 0.696		0.478 0.326 0.345
	4			18.123 1.982 15.956		52.593 16.106 36.281		9.345 0.270 8.013		57.171 50.000 36.628		14,641 7,748 8,422
	CONST.	8		7.044 6.443 7.456		7.396 6.275 7.652		7.363 5.178 7.474		6.672 5.804 7.009		7.750 5.590 7.893
MARKET SU	%GR	6		10.238* 3.697* 8.861*		5.252 4.090 ***		3.679* 1.876 3.488*		5.717* 1.100 4.676		7.0866. 7.0866. 7.0968.
SURPLUS	<b>L</b>	10		4.224 2.661 4.200		4.759 3.115 3.714		3.106 1.100 2.935		8.926 1.093 3.386		2.220 2.537 2.690
	R	Ξ		0.550 0.307 0.524		0.586 0.378 0.463		0.391 0.075 0.365		0.833 0.069 0.773		0.393 0.129 0.311
	Ēt.	12		19.571 7.082 17.636		22.646 9.706 13.796 13.796		9.645 1.209 8.612		79.676 1.194 54.549		10.368 2.362 7.234

7	3	†	-	9	2	8	6	O.	1.0	C F
DEORIA										
35 CEREALS 35 PULSES 35 TOTAL FAIZABAD	7.895 6.086 8.023	5.920* -4.321* 5.296*	10.216 4.729 9.213	0.867 0.584 0.841	104.373 22.462 84.881	7.308 5.489 7.436	7.499*	2.635 9.492	0.869 0.303 0.849	106,444 9,94. 90,10
36 CEREALS 36 PULSES 36 TOTAL CHAZIPUR	7.434 6.487 7.712	6.355* -3.942* 5.043*	10.416 3.767 7.677	0.871 0.470 0.787	. 108 497 14 193 58 942	6.924 5.976 7.202	7.432* -2.865 6.119*	7.429 1.996 5.808	0.775 0.199 0.678	55,19 33,73
37 CEREALS 37 PULSES 37 TOTAL GONDA	7,005 6,266 7,364	6.694* 1.382 5.200*	5.685 0.961 4.448	0.669 0.055 0.553	32,318 0,924 19,788	6.25 6.55 6.516 4.46	9.770* 1.686 8.275*	3.988 3.632 3.622	0.498 0.034 0.414	15.90.
38 CEREALS 38 PULSES 38 TOTAL GORAKHPUR	8.055 6.343 8.216	3.410* -1.143 2.921*	3.911 3.385	0.489 0.080 0.417	15.299 1.399 11.458	7.453 5.740 7.614	4.526* -0.020 4.037*	3.207 0.014 2.879	0.391 0.000 0.341	10.282 0.000 8.290
39 CEREALS 39 PULSES 39 TOTAL JAUNPUR	8,203 5,963 8,299	4.608* -2.051 4.219*	11.657 2.475 10.589	0.895 0.277 0.875	135.875 6.127 112.118	7.740 5.500 7.836	5.643* 5.255*	10.308 1.110 9.583	0.869 0.072 0.852	106.232 1.233 91.831
40 CEREALS 40 PULSES 40 TOTAL	7.714 5.632 7.841	4.458* 0.017 4.062*	6.906 5.305 5.305	0.749 0.000 0.638	47.695 0.000 28.141	7.220. 5.140 7.348	5.433 0.973 5.037*	6.074 0.259 4.963	0.698 0.004 0.606	36.899 0.067 24.630

1 2	3	T.	2	9	7	8	6	10		12
IRZA							<b>.</b>			
41 CEREALS 41 PULSES 41 TOTAL	7.490	2.628 2.035 3.223	2.539 1.354 2.399	0.287 0.103 0.265	6.447 1.833 5.756	7.059	4.621* 4.020 4.316*	2.837 1.726 2.693	0.335 0.157 0.312	8.050 2.978 7.252
PRATAPGARH										
42 CEREALS 42 PULSES 42 TOTAL	7.105 6.336 7.455		7.283 3.037 6.272	0.768	53.045 9.226 39.335	6.503 6.735 8.54	6.859* -1.059 5.421*	6.661 1.054 5.837	0.735 0.065 0.680	44.373 1.111 34.073
SULTANFUR			4 × 4							
43 CEREALS 7 43 PULSES 45 TOTAL	7.369 6.628 7.703	4.658* -3.813 3.546*	6.001 1.213 5.195	0.706	36.910 1.470, 26.987	6.864 6.123 7.199	5.492* -2.963 4.377*	5.322 0.889 4.293	0.654 0.050 0.551	28.319 to 0.790 0 0.790 18.427
<u>Varanashi</u>										
44 CEREALS 44 PULSES 44 TOTAL	7.484 6.319 7.737	-5.724* -1.016 4.767*	5.098 0.969 4.477	0.055	25.992 0.938 20.041	6.970 5.806 7.223	7.106* 0.354 6.147*	4.220 0.229 3.774	0.527 0.003 0.471	17.804 0.052 14.243
H A S. T. E. R N	E E E E E E E E E E E E E E E E E E E	<b>Z</b> I								
CEREALS C PULSES O TOTAL	. 10,402 9,060 10,619	5.060* -1.123 4.274*	10.631 1.417 8.706	0.876 0.111 0.926	113.029 2.007 75.801	9.884 8.528 10.099	6.286* 0.194 5.514*	8.937 0.190 7.597	0.833 0.002 0.783	79.871 0.036 57.711
•										

Appendix XXII : Growth estimates of Froduction. Marketable Surplus of Foodgrains in the Hill Region.

Company of the Compan		Œ		0.594 0.009 0.587	2.331 33.326 2.520	20,825 0,006 20,016	1.771	0.298 36.105 0.311
		R2		0.038	0.127 0.676 0.136	0.581 0.000 0.572	0.106	0.021 0.721 0.022
AND THE SECOND S	SURPLUS			0.770 0.097 0.766	1.527 5.773 1.588	4.563 0.078 4.474	1.321	0.546 6.009 0.558
T AND THE SERVE THE SERVE SERVED SERV	MARKET SURE	%GR		-0.730 -0.023 -0.721	5.289 16.270* 5.461	4.485* 0.107 4.346*	2.511 -0.426 2.491	-0.702 -7.135 -0.718
Activities and the company of the section of the se		CONST.		7.176 2.338 7.183	6.104 0.325 6.103	5.635 2.612 5.681	6.435 1.722 6.444	5.932 1.126 5.939
				3.397 14.412 3.442	1.612 22.549 1.795	26.042 0.371 15.307	0.068 10.312 0.083	2.136 38.103 2.270
		R2		0.185 0.490 0.187	0.092 0.585 0.101	0.635 0.024 0.628	0.005 0.407 0.005	0.132 0.731 0.140
	N.	L		1.843 3.796 1.855	1.270 4.749 1.340	5.103 0.609 5.031	0.261 3.211 0.228	1.461 6.173 1.507
	PRCDUCTION	%GR		-1.390 -0.735* -1.385	3.557 14.517* 3.727	3.554*	-0,175 -2,896* -0,192	-1.170 -12.028* -1.204
	*	CONST.		7.645 2.811 7.653	6.724 0.976 6.723	6.080 3.059 6.126	7.234 2.504 7.243	6.669 2.062 6.676
		OM ,	5.4	46 CEREALS 46 PULSES 46 TOTAL	47. CEREALS 47. PULSES 47. TOTAL	CEREALS PULSES TOTAL	MAL CEREALS PULSES TOTAL	CEREALS PULSES TOTAL
		la	ALMORA	46 46 46 PITH	47 47 47 DEHR	4 <b>4</b> 4	GARHWAL 19 CE 19 PU 19 TC	CHAMOLI 50 CE 50 PU

	PRODUCTION	Z				MARKET SUR	S <b>U</b> RPLUS		
CONST.	%GR	E	R2	[T	CONST.	%GR	E	R2	<b>E</b>
7.258 5.322 7.369	8.375* -6.759* 7.702*	16.241 5.888 16.813	0.943	263.773 34. <b>6</b> 71 282.678	6.910 4.976 7.021	9.379* -5.778 . 8.707*	15.108 4.939 .15.393	0.934 0.604 0.937	228.251 24.393 236.935
6.992 3.124 7.011	-0.319 -4.796*	. 0.422 5.112 0.497	0.012	0.178 26.132 0.247	6.404 2.552 6.423	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	0,405 3,867 0,446	0.011	0,164 14,951 0,199
5.658 2.564 5.696	3.508* 3.282*	. 3.629 5.208 3.523	0.503 0.676 0.488	13.170 27.121	4.263 1.125 4.284	10.062* -1.738 9.992*	2.862 0.593 2.815	. 0.387 0.026 0.379	8.19 0.35 7.99
8 2 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3.294* 3.055*	3.200 4.589 3.118	0.390 0.568 0.378	10.238 21.061 9.725	8.360	4.760* -2.615* 4.578*	3.048 2.934 2.982	0.357 0.350 0.357	9.293 8.608 8.892

143

A P P E N D I X XXIII

Growth estimates of Production and Marketable surplus of Foodgrains in Bundelkhand Region .

	<u> </u>	<b>N</b>	0.022 0.504 1.357	1.761 1.632 1.775	6.917 8.824 9.169	1.586 0.003 0.740	1.794 32.945 3.124
	R2		0.112 0.031 0.078	0.093 0.093 0.100	0.302 0.355 0.364	0.090.000.0000.000000000000000000000000	0.230 0.846 0.342
SURPLUS	The control of the co		1.422 0.710 1.165	0.327 1.277 1.332	2.630 2.971 3.028	1.259 0.058 0.860	1.340
MARKET ST	%GR		4.095 1.937 3.266	2.041 2.125 2.071	2.000.00 0.000.00 0.000.00 0.000.00	-2.316 -0.152 -1.675	6.820 16.418 8.111
	CONST.	0.007	6.997 6.738 7.567	7.148 6.751 7.647	6.888 6.433 7.384	7.451 6.246 7.712	6.427 4.151 6.522
	AND THE PROPERTY OF THE PROPER		3.191 0.625 2.065	7.946 1.730 1.960	7.467 8.985 10.492	3.372 0.054 1.721	1.125 36.850 2.748
	R2	•	0.166 0.038 0.114	0.108 0.098 0.109	0.318 0.360 0.396	0.174 0.003 0.097	0.173 0.860 0.314
N	E	952-1	1.786 0.791 1.437	1.395 1.315 1.400	2.733 2.997 3.239	1.836 0.232 1.312	1.118 6.070 1.658
PRODUCTION	%GR		3.674* 1.516 2.847	1.786 1.870 1.816	2.594* 3.215* 2.785*	-2.685 -0.527 -2.045	4.445 14.049* 5.733
	CONST.		7.383 7.125 7.953	7.420 7.053 7.950	7.199 6.743 7.694	7.816 6.612 8.077	6.925 4.649 7.020
	OM	ACTIVA	55 CEREALS 55 PULSES 55 TOTAL	HAMIRPUR 56 CEREALS 56 PULSES 56 TOTAL	JALAIN 57 CEREALS 57 PULSES 57 TOTAL	JHANSI 58 CEREALS 58 PULSES 58 TOTAL	LALITPUR 59 CEREALS 59 PULSES 59 TOTAL

		PRODUCTION					MARKET SURPLUS	SURPLUS		
D; No	CONST.	%GR	E	R2	ſ <b>-</b>	CUNST.	%GR	EI	R2	, E
BUNDEL KHAND										
	8.816	2.471	1.952	0.192	3.810	8,485	2.752	1.736	0.158	3.01
O PULSES	8,285-	2,095	1 2561	0.4132	2,436	7.951	2,478	1.501	0.123	2.254
OTOTAL	9,280	2,332	1,834	0.174	3,363	8,6,8	2,649	1,666	0.148	2.774

144

APPENDIX: XXIV

Grwoth Estimates of Production and Marketable Surplus Foodgrains in Utter Pradesh

	H	76.245	48.174	
	R2	0.827	0.036	
SURPLUS	Ē	R 732	6.941	
MARKET SI	Œ√70	*'/27 1	7.5754 0.828 4.696*	
		CONST	11.145 9.842 11.371	
The same state of the same sta		Œ	97.520 3.611 56.310	
		R2	0.859 0.184 0.779	
		F	9.875 1.900 7.504	
	PRCDUCTION	%GR	4.636* -1.653 5.807*	
		CONST.	11.589 10.282 11.814	
		ON	CEREALS PULSES TOTAL	
		1	)	